

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 29/07/2014 Revision date: 22/01/2021 Supersedes: 20/02/2019 Version: 4.0

DNLM-819

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixtures

Product name : ALGAL AMINO ACID MIXTURE (U-D, 98%; U-15N, 98%)

Product code : DNLM-819

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com

Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1 H317

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36/38 R43

Full text of R-phrases: see section 16

GHS-US classification

Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1 H317

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : Warning

Hazardous ingredients : L-LYSINE:2HCL (D9, 98%; 15N2, 98%)

Hazard statements (CLP) : H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

GHS-US labeling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of water P305+P351+P338 - If in eyes: Rinse cautiously with plenty of water P305+P351+P338 - If in eyes: Rinse cautiously with plenty of water P305+P351+P338 - If in eyes: Rinse cautiously with plenty of water P305+P351+P338 - If in eyes: Rinse cautiously with plenty of water P305+P351+P358 - If in eyes: Rinse cautiously with plenty of water P305+P351+P358 - If in eyes: Rinse cautiously with plenty of water P305+P351+P358 - If in eyes: Rinse cautiously with plenty of water P305+P351+P358 - If in eyes: Rinse cautiously with plenty of water P305+P351+P358 - If in eyes: Rinse cautiously with plenty of water P305+P351+P358 - If in eyes: Rinse cautiously with plenty of water P305+P351+P358 - If in eyes: Rinse cautiously with plenty of water P305+P351+P358 - If in eyes: Rinse cautiously with plenty of water P305+P351+P358 - If in eyes: Rinse cautiously with plenty of water P305+P351+P358 - If in eyes: Rinse cautiously with plenty of water P305+P351+P351 - If in eyes: Rinse cautiously with plenty of water P305+P351+P351 - If in eyes: Rinse cautiously with plenty of water P305+P351+P351 - If in eyes: Rinse cautiously with plenty of water P305+P351 - If in eyes: Rinse cautiously with plenty of water P305+P351 - If in eyes: Rinse cautiously with plenty of water P305+P351 - If in eyes: Rinse cautiously with plenty of water P305+P351 - If in eyes: Rinse cautiously with plenty of water P305+P351 - If in eyes: Rinse cautiously with plenty of water P305+P351 - If in eyes: Rinse cautiously with plenty of water P305+P351 - If in eyes: Rinse cautiously water Rinse cautiously wate

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P321 - Specific treatment (see Hazardous component(s) for labeling on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC	
L-LEUCINE (D10, 98%; 15N, 97%)	(CAS-No.) 61-90-5 (Unlabeled) (EC-No.) 200-522-0 (Unlabeled)	~ 14	Not classified	
L-GLUTAMIC ACID (2,3,3,4,4-D5, 98%; 15N, 98%)	(CAS-No.) 56-86-0 (Unlabeled) (EC-No.) 200-292-1(Unlabeled) (EC Index-No.)	~ 13	Not classified	
L-ALANINE (2,3,3,3-D4, 98%; 15N, 98%)	(CAS-No.) 56-41-7 (Unlabeled) (EC-No.) 200-273-8 (Unlabeled)	~ 10	Not classified	

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-VALINE (D8, 96%; 15N, 96%)	(CAS-No.) 72-18-4 (Unlabeled) (EC-No.) 200-773-6 (Unlabeled)	~ 9	Not classified
L-ISOLEUCINE (D10, 98%; 15N, 98%)	(CAS-No.) 73-32-5 (Unlabeled) (EC-No.) 200-798-2 (Unlabeled)	~ 8	Not classified
L-PHENYLALANINE (D8, 98%; 15N, 98%)	(CAS-No.) 63-91-2 (Unlabeled) (EC-No.) 200-568-1	~ 8	Not classified
L-ASPARTIC ACID (2,3,3-D3, 98%; 15N, 98%)	(CAS-No.) 1308264-52-9 (EC-No.) 200-291-6 (Unlabeled)	~ 6	Not classified
GLYCINE (2,2-D2, 80%; 15N, 98%)	(CAS-No.) 56-40-6 (Unlabeled) (EC-No.) 200-272-2 (Unlabeled)	~ 6	Not classified
L-THREONINE (D5, 97%; 15N, 98%)	(CAS-No.) 72-19-5 (Unlabeled) (EC-No.) 200-774-1 (Unlabeled)	~ 5	Not classified
L-PROLINE (D7, 98%; 15N, 98%)	(CAS-No.) 147-85-3 (Unlabeled) (EC-No.) 205-702-2 (Unlabeled)	~ 4	Not classified
L-TYROSINE (D7, 97-98%; 15N, 98%)	(CAS-No.) 60-18-4 (Unlabeled) (EC-No.) 200-460-4 (Unlabeled)	~ 4	Xi; R36/37/38
L-ARGININE:HCL (D7, 98%; 15N4, 98%)	(CAS-No.) 1119-34-2 (Unlabeled) (EC-No.) 214-275-1 (Unlabeled)	~ 3	Xi; R36/38
L-LYSINE:2HCL (D9, 98%; 15N2, 98%)	(CAS-No.) 657-26-1 (Unlabeled) (EC-No.) 211-518-3	~ 3	R43
L-SERINE (2,3,3-D3, 98%; 15N, 98%)	(CAS-No.) 56-45-1 (Unlabeled) (EC-No.) 200-274-3 (Unlabeled)	~ 3	Not classified
L-HISTIDINE:HCL:H2O (D5, 98%; 15N3, 98%)	(CAS-No.) 5934-29-2 (Unlabeled) (EC-No.) 2114389 (Unlabeled) (EC Index-No.)	~ 2	Not classified
L-METHIONINE (D8, 98%; 15N, 98%)	(CAS-No.) 63-68-3 (Unlabeled) (EC-No.) 200-562-9 (Unlabeled)	~ 2	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
L-LEUCINE (D10, 98%; 15N, 97%)	(CAS-No.) 61-90-5 (Unlabeled) (EC-No.) 200-522-0 (Unlabeled)	~ 14	Not classified
L-GLUTAMIC ACID (2,3,3,4,4-D5, 98%; 15N, 98%)	(CAS-No.) 56-86-0 (Unlabeled) (EC-No.) 200-292-1(Unlabeled) (EC Index-No.)	~ 13	Not classified
L-ALANINE (2,3,3,3-D4, 98%; 15N, 98%)	(CAS-No.) 56-41-7 (Unlabeled) (EC-No.) 200-273-8 (Unlabeled)	~ 10	Not classified
L-VALINE (D8, 96%; 15N, 96%)	(CAS-No.) 72-18-4 (Unlabeled) (EC-No.) 200-773-6 (Unlabeled)	~ 9	Not classified
L-ISOLEUCINE (D10, 98%; 15N, 98%)	(CAS-No.) 73-32-5 (Unlabeled) (EC-No.) 200-798-2 (Unlabeled)	~ 8	Not classified
L-PHENYLALANINE (D8, 98%; 15N, 98%)	(CAS-No.) 63-91-2 (Unlabeled) (EC-No.) 200-568-1	~ 8	Not classified
L-ASPARTIC ACID (2,3,3-D3, 98%; 15N, 98%)	(CAS-No.) 1308264-52-9 (EC-No.) 200-291-6 (Unlabeled)	~ 6	Not classified
GLYCINE (2,2-D2, 80%; 15N, 98%)	(CAS-No.) 56-40-6 (Unlabeled) (EC-No.) 200-272-2 (Unlabeled)	~ 6	Not classified
L-THREONINE (D5, 97%; 15N, 98%)	(CAS-No.) 72-19-5 (Unlabeled) (EC-No.) 200-774-1 (Unlabeled)	~ 5	Not classified
L-PROLINE (D7, 98%; 15N, 98%)	(CAS-No.) 147-85-3 (Unlabeled) (EC-No.) 205-702-2 (Unlabeled)	~ 4	Not classified
L-TYROSINE (D7, 97-98%; 15N, 98%)	(CAS-No.) 60-18-4 (Unlabeled) (EC-No.) 200-460-4 (Unlabeled)	~ 4	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
L-ARGININE:HCL (D7, 98%; 15N4, 98%)	(CAS-No.) 1119-34-2 (Unlabeled) (EC-No.) 214-275-1 (Unlabeled)	~ 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319
L-LYSINE:2HCL (D9, 98%; 15N2, 98%)	(CAS-No.) 657-26-1 (Unlabeled) (EC-No.) 211-518-3	~ 3	Skin Sens. 1, H317
L-SERINE (2,3,3-D3, 98%; 15N, 98%)	(CAS-No.) 56-45-1 (Unlabeled) (EC-No.) 200-274-3 (Unlabeled)	~ 3	Not classified
L-HISTIDINE:HCL:H2O (D5, 98%; 15N3, 98%)	(CAS-No.) 5934-29-2 (Unlabeled) (EC-No.) 2114389 (Unlabeled) (EC Index-No.)	~ 2	Not classified
L-METHIONINE (D8, 98%; 15N, 98%)	(CAS-No.) 63-68-3 (Unlabeled) (EC-No.) 200-562-9 (Unlabeled)	~ 2	Not classified
Name	Product identifier	%	GHS-US classification
L-LEUCINE (D10, 98%; 15N, 97%)	(CAS-No.) 61-90-5 (Unlabeled)	~ 14	Not classified
L-GLUTAMIC ACID (2,3,3,4,4-D5, 98%; 15N, 98%)	(CAS-No.) 56-86-0 (Unlabeled)	~ 13	Not classified
L-ALANINE (2,3,3,3-D4, 98%; 15N, 98%)	(CAS-No.) 56-41-7 (Unlabeled)	~ 10	Not classified
L-VALINE (D8, 96%; 15N, 96%)	(CAS-No.) 72-18-4 (Unlabeled)	~ 9	Not classified
L-ISOLEUCINE (D10, 98%; 15N, 98%)	(CAS-No.) 73-32-5 (Unlabeled)	~ 8	Not classified

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Name	Product identifier	%	GHS-US classification
L-PHENYLALANINE (D8, 98%; 15N, 98%)	(CAS-No.) 63-91-2 (Unlabeled)	~ 8	Not classified
L-ASPARTIC ACID (2,3,3-D3, 98%; 15N, 98%)	(CAS-No.) 1308264-52-9	~ 6	Not classified
GLYCINE (2,2-D2, 80%; 15N, 98%)	(CAS-No.) 56-40-6 (Unlabeled)	~ 6	Not classified
L-THREONINE (D5, 97%; 15N, 98%)	(CAS-No.) 72-19-5 (Unlabeled)	~ 5	Not classified
L-PROLINE (D7, 98%; 15N, 98%)	(CAS-No.) 147-85-3 (Unlabeled)	~ 4	Not classified
L-TYROSINE (D7, 97-98%; 15N, 98%)	(CAS-No.) 60-18-4 (Unlabeled)	~ 4	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
L-ARGININE:HCL (D7, 98%; 15N4, 98%)	(CAS-No.) 1119-34-2 (Unlabeled)	~ 3	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
L-LYSINE:2HCL (D9, 98%; 15N2, 98%)	(CAS-No.) 657-26-1 (Unlabeled)	~ 3	Skin Sens. 1, H317
L-SERINE (2,3,3-D3, 98%; 15N, 98%)	(CAS-No.) 56-45-1 (Unlabeled)	~ 3	Not classified
L-HISTIDINE:HCL:H2O (D5, 98%; 15N3, 98%)	(CAS-No.) 5934-29-2 (Unlabeled)	~ 2	Not classified
L-METHIONINE (D8, 98%; 15N, 98%)	(CAS-No.) 63-68-3 (Unlabeled)	~ 2	Not classified

Full text of R- and H- phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.

First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. If not breathing, give

artificial respiration. Get medical advice/attention.

First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get

medical advice/attention.

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

Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory irritation. Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing

apparatus. Do not enter fire area without proper protective equipment, including respiratory

protection.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Wear recommended personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid breathing vapors, mist, gas. Avoid dust formation.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.

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Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed. Storage conditions : Store at room temperature away from light and moisture.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Solid
Color : White

Odor : No data available Odor threshold No data available рΗ : No data available Relative evaporation rate (butyl acetate=1) : No data available No data available Melting point Freezing point No data available **Boiling point** No data available : No data available Flash point Auto-ignition temperature : No data available Decomposition temperature No data available : No data available Flammability (solid, gas) : No data available Vapor pressure Relative vapor density at 20 °C No data available Relative density No data available Solubility No data available Log Pow No data available No data available Log Kow Viscosity, kinematic No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Viscosity, dynamic

Explosive properties

Oxidizing properties Explosion limits

No additional information available

10.2. Chemical stability

Stable if stored under recommended conditions.

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: No data available

No data availableNo data available

No data available

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Possibility of hazardous reactions

No additional information available

Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

Incompatible materials

Strong acids, Strong bases.

Reproductive toxicity

Hazardous decomposition products

Carbon oxides (CO, CO2). Carbon monoxide.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	: Not classified					
L-ALANINE (2,3,3,3-D4, 98%; 15N, 98%) (56-4	11-7 (Unlabeled))					
LD50 oral rat	> 5110 mg/kg male and female					
L-ARGININE:HCL (D7, 98%; 15N4, 98%) (1119-34-2 (Unlabeled))						
LD50 oral rat	12400 mg/kg					
ATE CLP (oral)	12000.000 mg/kg body weight					
L-ASPARTIC ACID (2,3,3-D3, 98%; 15N, 98%)	(1308264-52-9)					
LD50 oral rat	5000 mg/kg					
LD50 dermal rabbit	5000 mg/kg					
ATE CLP (oral)	5000.000 mg/kg body weight					
ATE CLP (dermal)	5000.000 mg/kg body weight					
L-GLUTAMIC ACID (2,3,3,4,4-D5, 98%; 15N, 9	98%) (56-86-0 (Unlabeled))					
LD50 oral rat	7500 mg/kg					
ATE CLP (oral)	7500.000 mg/kg body weight					
GLYCINE (2,2-D2, 80%; 15N, 98%) (56-40-6 (Jnlabeled))					
LD50 oral rat	7930 mg/kg					
ATE CLP (oral)	7930.000 mg/kg body weight					
L-HISTIDINE:HCL:H2O (D5, 98%; 15N3, 98%)	(5934-29-2 (Unlabeled))					
Additional information	intraperitoneal LD50 - Mouse - > 1,677 mg/kg					
L-LEUCINE (D10, 98%; 15N, 97%) (61-90-5 (U	inlabeled))					
LD50 oral rat	> 16000 mg/kg male and female					
LD50 Intraperitoneal - Rat - 5,379 mg/kg	Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body					
Remarks	temperature decrease.					
L-METHIONINE (D8, 98%; 15N, 98%) (63-68-3 (Unlabeled))						
LD50 oral rat	36000 mg/kg Remarks: Behavioral: Change in motor activity (specific assay). Skin and					
	Appendages: Allergic (Multiple organ involvement) Anaphylaxix.					
L-PROLINE (D7, 98%; 15N, 98%) (147-85-3 (U						
LD50 oral rat	> 5110 mg/kg					
L-SERINE (2,3,3-D3, 98%; 15N, 98%) (56-45-1	(Unlabeled))					
LD50 oral rat	14000 mg/kg male and female					
L-THREONINE (D5, 97%; 15N, 98%) (72-19-5	(Unlabeled))					
LD50 Intraperitoneal - Rat - 4 mg/kg Remarks	Lungs, Thorax, or Respiration: Other changes.					
L-TYROSINE (D7, 97-98%; 15N, 98%) (60-18-	4 (Unlabeled))					
Additional information	LD50 Intraperitoneal - mouse - > 1,450 mg/kg					
L-VALINE (D8, 96%; 15N, 96%) (72-18-4 (Unia	abeled))					
LD50 oral rat	> 2000 mg/kg Rat female - (OECD Test Guideline 423)					
LD50 dermal rat	5390 mg/kg					
LC50 inhalation rat (mg/l)	> 5260 mg/m³ (OECD Test Guideline 403)					
Skin corrosion/irritation	: Causes skin irritation.					
Serious eye damage/irritation	: Causes serious eye irritation.					
Respiratory or skin sensitization	: May cause an allergic skin reaction.					
Germ cell mutagenicity	: Not classified					
Carcinogenicity	: Not classified					

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: Not classified

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Specific target organ toxicity - single exposure : Not classified Specific target organ toxicity - repeated : Not classified

exposure

L-LEUCINE (D10, 98%; 15N, 97%) (61-90-5 (Unlabeled))					
NOAEL (oral,rat,90 days)	NOAEL (oral,rat,90 days) 3840 mg/kg bodyweight/day female				
L-SERINE (2,3,3-D3, 98%; 15N, 98%) (56-45	-1 (Unlabeled))				
NOAEL (oral,rat,90 days)	3000 mg/kg bodyweight/day male and female - OECD Test Guideline 408				
Aspiration hazard	: Not classified				
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.				
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction.				
Symptoms/effects after eye contact	: Causes serious eye irritation.				
Symptoms/effects after ingestion	: May be harmful if swallowed.				

SECTION 12: Ecological information

Toxicity

EC50 Daphnia 1

ALGAL AMINO ACID MIXTURE (U-D, 98%; U-15N, 98%)				
LC50 fish 1	> 10 g/l Danio rerio (zebra fish) - 96 h			
EC50 Daphnia 1	> 10 g/l Daphnia magna (water flea) - 24 h			
L-ALANINE (2,3,3,3-D4, 98%; 15N, 98%) (56-41	-7 (Unlabeled))			
EC50 Daphnia 1	> 100 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)			
L-PROLINE (D7, 98%; 15N, 98%) (147-85-3 (Unlabeled))				
EC50 Daphnia 1	> 100 mg/l - Daphnia magna (Water flea) - 48 h			
L-SERINE (2,3,3-D3, 98%; 15N, 98%) (56-45-1 (Unlabeled))				
EC50 Daphnia 1	> 83 mg/l Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)			
ErC50 (algae)	> 83 mg/l Daphnia magna (Water flea) - 48 h			
NOEC chronic algae	1000 mg/l static test NOEC - Pseudokirchneriella subcapitata (green algae) - 72 h (OECD Test Guideline 201)			
L-VALINE (D8, 96%; 15N, 96%) (72-18-4 (Unlabeled))				
LC50 fish 1	> 10 g/l Danio rerio (zebra fish) - (OECD Test Guideline 203) 96 h			

Persistence and degradability

ALGAL AMINO ACID MIXTURE (U-D, 98%; U-15N, 98%)				
Persistence and degradability Aerobic - exposure time: 28 d.				
L-SERINE (2,3,3-D3, 98%; 15N, 98%) (56-45-1 (Unlabeled))			
Persistence and degradability	sistence and degradability Aerobic - exposure time: 28 d.			
Biodegradation	81 % Readily biodegradable (OECD Test Guideline 301)			
L-VALINE (D8, 96%; 15N, 96%) (72-18-4 (Unlabeled))				
Persistence and degradability Aerobic - exposure time: 28 d.				
42.2 Disagramulativa patential				

> 10 g/l Daphnia magna (Water flea) - (OECD Test Guideline 202) 24 h

12.3. Bioaccumulative poter	d .				
L-ALANINE (2,3,3,3-D4, 98%; 1	L-ALANINE (2,3,3,3-D4, 98%; 15N, 98%) (56-41-7 (Unlabeled))				
Log Pow	-2.74 at 20 °C (68 °F)				
L-GLUTAMIC ACID (2,3,3,4,4-D	98%; 15N, 98%) (56-86-0 (Unlabeled))				
Log Pow	< -4 at 20 °C (68 °F)				
L-ISOLEUCINE (D10, 98%; 15N, 98%) (73-32-5 (Unlabeled))					
Log Pow	-1.58				
L-SERINE (2,3,3-D3, 98%; 15N, 98%) (56-45-1 (Unlabeled))					
Log Pow	-3.069 at 20 °C (68 °F)				
L-TYROSINE (D7, 97-98%; 15N, 98%) (60-18-4 (Unlabeled))					

L-VALINE (D8, 96%; 15N, 96%) (72-18-4 (Unlabeled))

Log Pow -2.259 at 20°C (68°F)

-2.26 at 25 °C (77 °F)

Mobility in soil

Log Pow

No additional information available

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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and local

environmental control regulations.

Ecology - waste materials : Dispose of as unused product.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Other information : No supplementary information available.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

14.4. Environmental hazards

Other information : No supplementary information available.

14.5. Special precautions for user

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

L-ALANINE (2,3,3,3-D4, 98%; 15N, 98%) (56-41-7 (Unlabeled))					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302				
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313				
L-ARGININE:HCL (D7, 98%; 15N4, 98%) (111	19-34-2 (Unlabeled))				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302				
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard				
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313				
L-ASPARTIC ACID (2,3,3-D3, 98%; 15N, 98%) (1308264-52-9)					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.				
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.				
L-GLUTAMIC ACID (2,3,3,4,4-D5, 98%; 15N, 98%) (56-86-0 (Unlabeled))					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.				
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.				

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, 2012 / Naise and Negatations						
GLYCINE (2,2-D2, 80%; 15N, 98%) (56-40-6 (U						
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302					
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313					
L-HISTIDINE:HCL:H2O (D5, 98%; 15N3, 98%) (5934-29-2 (Unlabeled))						
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.					
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.					
L-ISOLEUCINE (D10, 98%; 15N, 98%) (73-32-	5 (Unlabeled))					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302					
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313					
L-LEUCINE (D10, 98%; 15N, 97%) (61-90-5 (U	nlabeled))					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302					
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313					
L-LYSINE:2HCL (D9, 98%; 15N2, 98%) (657-2	6-1 (Unlabeled))					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302					
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313					
L-METHIONINE (D8, 98%; 15N, 98%) (63-68-3	(Unlabeled))					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302					
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313					
L-PHENYLALANINE (D8, 98%; 15N, 98%) (63-91-2 (Unlabeled))						
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302					
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313					
L-PROLINE (D7, 98%; 15N, 98%) (147-85-3 (Unlabeled))						
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302					
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313					
L-SERINE (2,3,3-D3, 98%; 15N, 98%) (56-45-1	(Unlabeled))					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302					
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313					
L-THREONINE (D5, 97%; 15N, 98%) (72-19-5	(Unlabeled))					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302					
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313					
L-TYROSINE (D7, 97-98%; 15N, 98%) (60-18-4	4 (Unlabeled))					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302					
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard					
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313					
L-VALINE (D8, 96%; 15N, 96%) (72-18-4 (Unla	abeled))					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302					
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313					

15.2. International regulations

No additional information available

National regulations 15.2.1.

No additional information available

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15.3. US State regulations						
ALGAL AMINO ACID MIXTURE (U-D, 98%; U-15N, 98%)()						
U.S California - Proposition	•	No				
U.S California - Proposition 65 - Developmental Toxicity		N	No			
U.S California - Proposition Toxicity - Female	n 65 - Reproductive	N	0			
U.S California - Proposition Toxicity - Male	n 65 - Reproductive	N	0			
State or local regulations			.S New Jersey - Right to Kno .S Pennsylvania - RTK (Righ			
L-ALANINE (2,3,3,3-D4, 98%	%: 15N. 98%) (56-41-7 (Uni	labe	eled))			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity		U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity -	No significant risk level (NSRL)	
No	No		No	Male No		
- -				140		
L-ARGININE:HCL (D7, 98% U.S California -	; 15N4, 98%) (1119-34-2 (U U.S California -	Unla	u.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity		Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)	
No	No		No	No		
L-ASPARTIC ACID (2,3,3-D	3, 98% ; 15N, 98%) (13082 6	64-5	52-9)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity		U.S California - Proposition 65 - Reproductive Toxicity -	U.S California - Proposition 65 - Reproductive Toxicity -	No significant risk level (NSRL)	
No	No		Female No	Male No		
L-GLUTAMIC ACID (2,3,3,4		- 96	-	110		
U.S California -	U.S California -	-00	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity		Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)	
No	No		No	No		
GLYCINE (2,2-D2, 80%; 15N	N, 98%) (56-40-6 (Unlabele	ed))				
U.S California -	U.S California -		U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity		Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)	
No	No		No	No		
L-HISTIDINE:HCL:H2O (D5,	, 98% ; 15N3, 98%) (5934-2 9	9-2	(Unlabeled))			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity		U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
No	No		No	No		
L-ISOLEUCINE (D10, 98%; 15N, 98%) (73-32-5 (Unlabeled))						
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity		U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
No	No		No	No		
L-LEUCINE (D10, 98%; 15N	l, 97%) (61-90-5 (Unlabeled	d))				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity		U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
No	No		No	No		

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	8% ; 15N2, 98%) (657-26-1 (Unl a		1	T
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 -	Proposition 65 - Reproductive Toxicity -	(NSRL)
Jarcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Male	
No	No	No	No	
L-METHIONINE (D8, 98	8%; 15N, 98%) (63-68-3 (Unlabe	led))		
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
L-PHENYLALANINE (D	08, 98%; 15N, 98%) (63-91-2 (Un	labeled))		
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
	15N, 98%) (147-85-3 (Unlabeled			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
	3%; 15N, 98%) (56-45-1 (Unlabe			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
L-THREONINE (D5, 97°	%; 15N, 98%) (72-19-5 (Unlabel			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
	8%; 15N, 98%) (60-18-4 (Unlabe			
	U.S California -		U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
L-VALINE (D8, 96%; 15	5N, 96%) (72-18-4 (Unlabeled))			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
-ΔΙ ΔΝΙΝΕ (2.3.3.D.4	, 98%; 15N, 98%) (56-41-7 (Unia	aheled))		
State or local regulation	, , , , , , , , , , , , , , , , , , , ,			
or room rogulation				

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

L-ARGININE:HCL (D7, 98%; 15N4, 98%) (1119-34-2 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

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L-ASPARTIC ACID (2,3,3-D3, 98%; 15N, 98%) (1308264-52-9)

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

L-GLUTAMIC ACID (2,3,3,4,4-D5, 98%; 15N, 98%) (56-86-0 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

GLYCINE (2,2-D2, 80%; 15N, 98%) (56-40-6 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

L-HISTIDINE:HCL:H2O (D5, 98%; 15N3, 98%) (5934-29-2 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

L-ISOLEUCINE (D10, 98%; 15N, 98%) (73-32-5 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

L-LEUCINE (D10, 98%; 15N, 97%) (61-90-5 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

L-LYSINE:2HCL (D9, 98%; 15N2, 98%) (657-26-1 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

L-METHIONINE (D8, 98%; 15N, 98%) (63-68-3 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

L-PHENYLALANINE (D8, 98%; 15N, 98%) (63-91-2 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

L-PROLINE (D7, 98%; 15N, 98%) (147-85-3 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

L-SERINE (2,3,3-D3, 98%; 15N, 98%) (56-45-1 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

L-THREONINE (D5, 97%; 15N, 98%) (72-19-5 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

L-TYROSINE (D7, 97-98%; 15N, 98%) (60-18-4 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

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L-VALINE (D8, 96%; 15N, 96%) (72-18-4 (Unlabeled))

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
R36/37/38	Irritating to eyes, respiratory system and skin
R36/38	Irritating to eyes and skin
R43	May cause sensitization by skin contact
Xi	Irritant

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause

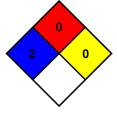
temporary incapacitation or residual injury.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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