

# 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: 05/08/2014

Revision date: 22/01/2021

Supersedes: 20/02/2019

Version: 4.0

DLM-2082

# 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%)

Product code : DLM-2082

### 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 <a href="mailto:cilsales@isotope.com">cilsales@isotope.com</a> 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

# 2.2. Label elements

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

Hazard pictograms (CLP)



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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

Signal word (CLP) : Warning

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)



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 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

#### Other hazards

No additional information available

# **SECTION 3: Composition/Information on ingredients**

#### **Substances**

Not applicable

#### 3.2 **Mixtures**

Name	Product identifier	%	Classification according to Directive 67/548/EEC
L-LEUCINE (D10, 98%)	(CAS-No.) 106972-44-5 (EC-No.) 200-522-0 (Unlabeled)	~ 14	Not classified
L-GLUTAMIC ACID (2,3,3,4,4-D5, 98%)	(CAS-No.) 2784-50-1 (EC-No.) 200-293-7 (Unlabeled)	~ 13	Not classified
L-ALANINE (D7, 98%)	(CAS-No.) 74280-71-0 (EC-No.) 200-273-8 (Unlabeled)	~ 10	Not classified
L-VALINE (D8, 98%)	(CAS-No.) 35045-72-8 (EC-No.) 200-773-6 (Unlabeled)	~ 9	Not classified
L-ISOLEUCINE (D10, 98%)	(CAS-No.) 73-32-5 (Unlabeled) (EC-No.) 200-798-2 (Unlabeled)	~ 8	Not classified
L-PHENYLALANINE (D8, 98%)	(CAS-No.) 63-91-2 (Unlabeled) (EC-No.) 200-568-1	~ 8	Not classified
L-ASPARTIC ACID (2,3,3-D3, 98%)	(CAS-No.) 3842-25-9 (EC-No.) 200-291-6 (Unlabeled)	~ 6	Not classified
GLYCINE (D5, 98%)	(CAS-No.) 4896-77-9 (EC-No.) 200-272-2 (Unlabeled)	~ 6	Not classified
L-THREONINE (D5, 98%)	(CAS-No.) 72-19-5 (Unlabeled) (EC-No.) 200-774-1 (Unlabeled)	~ 5	Not classified

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No.) 147-85-3 (Unlabeled) o.) 205-702-2 (Unlabeled) No.) 60-18-4 (Unlabeled) No.) 60-18-4 (Unlabeled) No.) 657-26-1 (Unlabeled) No.) 200-460-4 (Unlabeled) No.) 211-518-3 (Unlabeled) No.) 204244-77-9 o.) 214-275-1 (Unlabeled) No.) 95034-57-4 o.) 200-274-3 (Unlabeled) No.) 5934-29-2 (Unlabeled) No.) 13010-53-2 o.) 200-562-9 (Unlabeled) No.) 13010-53-2 o.) 200-562-9 (Unlabeled) No.) 2784-50-1 o.) 200-273-8 (Unlabeled) No.) 74280-71-0 o.) 200-273-8 (Unlabeled) No.) 35045-72-8 o.) 200-773-6 (Unlabeled) No.) 35342-25-9 o.) 200-568-1 No.) 3842-25-9 o.) 200-291-6 (Unlabeled) No.) 4896-77-9 o.) 200-271-5 (Unlabeled) No.) 72-19-5 (Unlabeled) No.) 72-19-5 (Unlabeled) No.) 147-85-3 (Unlabeled) No.) 147-85-3 (Unlabeled) No.) 147-85-3 (Unlabeled) No.) 60-18-4 (Unlabeled) No.) 60-18-4 (Unlabeled) No.) 657-26-1 (Unlabeled)	~ 4     ~ 4     ~ 4     ~ 3     ~ 3     ~ 3     ~ 2     ~ 2     ~ 2      %     ~ 14     ~ 13     ~ 10     ~ 9     ~ 8     ~ 8     ~ 6     ~ 6     ~ 5     ~ 4     ~ 4	Not classified  Xi; R36/37/38  R43  Xi; R36/38  Not classified  Not classified  Not classified  Classification according to Regulation (EC) No. 1272/2008 [CLP]  Not classified  Skin Irrit. 2, H315
o.) 200-460-4 (Unlabeled) No.) 657-26-1 (Unlabeled) No.) 657-26-1 (Unlabeled) No.) 204244-77-9 o.) 214-275-1 (Unlabeled) No.) 95034-57-4 o.) 200-274-3 (Unlabeled) No.) 5934-29-2 (Unlabeled) No.) 13010-53-2 o.) 200-562-9 (Unlabeled) Mo.) 106972-44-5 o.) 200-522-0 (Unlabeled) No.) 2784-50-1 o.) 200-273-8 (Unlabeled) No.) 35045-72-8 o.) 200-773-6 (Unlabeled) No.) 35045-72-8 o.) 200-293-7 (Unlabeled) No.) 3842-25-9 o.) 200-291-6 (Unlabeled) No.) 3842-25-9 o.) 200-272-2 (Unlabeled) No.) 3842-25-9 o.) 200-774-1 (Unlabeled) No.) 72-19-5 (Unlabeled) No.) 72-19-5 (Unlabeled) No.) 72-19-5 (Unlabeled) No.) 200-774-1 (Unlabeled) No.) 147-85-3 (Unlabeled) No.) 147-85-3 (Unlabeled) No.) 147-85-3 (Unlabeled) No.) 147-85-3 (Unlabeled) No.) 60-18-4 (Unlabeled) No.) 60-18-4 (Unlabeled)	~ 3     ~ 3     ~ 3     ~ 2     ~ 2     ~ 2     ~ 2     ~ 14     ~ 13     ~ 10     ~ 9     ~ 8     ~ 8     ~ 6     ~ 6     ~ 5     ~ 4	R43  Xi; R36/38  Not classified  Not classified  Not classified  Classification according to Regulation (EC) No. 1272/2008 [CLP]  Not classified  Skin Irrit. 2, H315
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No.) 72-19-5 (Unlabeled) o.) 200-774-1 (Unlabeled) No.) 147-85-3 (Unlabeled) o.) 205-702-2 (Unlabeled) No.) 60-18-4 (Unlabeled) o.) 200-460-4 (Unlabeled)	~ 4	Not classified  Skin Irrit. 2, H315
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No.) 60-18-4 (Unlabeled) o.) 200-460-4 (Unlabeled)	~ 4	
No.) 657-26-1 (Unlabeled)		Eye Irrit. 2, H319 STOT SE 3, H335
o.) 211-518-3 (Unlabeled)	~ 3	Skin Sens. 1, H317
No.) 204244-77-9 o.) 214-275-1 (Unlabeled)	~ 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319
No.) 95034-57-4 o.) 200-274-3 (Unlabeled)	~ 3	Not classified
No.) 5934-29-2 (Unlabeled) o.) 211-438-9 (Unlabeled)	~ 2	Not classified
No.) 13010-53-2 o.) 200-562-9 (Unlabeled)	~ 2	Not classified
luct identifier	%	GHS-US classification
No.) 106972-44-5	~ 14	Not classified
· · · · · · · · · · · · · · · · · · ·	~ 13	Not classified
No.) 74280-71-0	~ 10	Not classified
· · · · · · · · · · · · · · · · · · ·	~ 9	Not classified
No.) 73-32-5 (Unlabeled)	~ 8	Not classified
No.) 63-91-2 (Unlabeled)	~ 8	Not classified
No.) 3842-25-9	~ 6	Not classified
No.) 4896-77-9	~ 6	Not classified
No.) 72-19-5 (Unlabeled)	~ 5	Not classified
No.) 147-85-3 (Unlabeled)	~ 4	Not classified
No.) 60-18-4 (Unlabeled)	~ 4	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
No.) 657-26-1 (Unlabeled)	~ 3	Skin Sens. 1, H317
No.) 204244-77-9	~ 3	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
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# 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

Name	Product identifier	%	GHS-US classification
L-METHIONINE (METHYL-D3, 98%)	(CAS-No.) 13010-53-2	~ 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.

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.

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#### 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 : Light brown Color 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 : No data available **Boiling point** : No data available Flash point No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available : 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 Viscosity, dynamic : No data available Explosive properties : No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Oxidizing properties Explosion limits

No additional information available

## 10.2. Chemical stability

Stable if stored under recommended conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

# 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids, Strong bases.

# 10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). Carbon monoxide.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

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: No data available

: No data available

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L-ASPARTIC ACID (2,3,3-D3, 98%) (3842-25-9	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	5000 mg/kg
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
L-GLUTAMIC ACID (2,3,3,4,4-D5, 98%) (2784-	50-1)
LD50 oral rat	> 5110 mg/kg Rat - male and female
LD50 dermal rat	> 2000 mg/kg Rat - male and female
L-LEUCINE (D10, 98%) (106972-44-5)	
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-ALANINE (D7, 98%) (74280-71-0)	
LD50 oral rat	> 5110 mg/kg male and female
L-ARGININE:HCL (D7, 98%) (204244-77-9)	
LD50 oral rat	12400 mg/kg
ATE CLP (oral)	12000.000 mg/kg body weight
L-PROLINE (D7, 97-98%) (147-85-3 (Unlabele	d))
LD50 oral rat	> 5110 mg/kg
GLYCINE (D5, 98%) (4896-77-9)	
LD50 oral rat	7930 mg/kg
ATE CLP (oral)	7930.000 mg/kg body weight
L-VALINE (D8, 98%) (35045-72-8)	The state of the s
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)
· · · · ·	× ozoo mg m (ozoz rost ostaomio ros)
L-SERINE (3,3-D2, 98%) (95034-57-4)  LD50 oral rat	14000 mg/kg male and female
	14000 mg/kg male and remale
L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))	LDEO latera criterical masses 4 450 mar/les
Additional information	LD50 Intraperitoneal - mouse - > 1,450 mg/kg
L-METHIONINE (METHYL-D3, 98%) (13010-53	
LD50 oral rat	36000 mg/kg Remarks: Behavioral: Change in motor activity (specific assay). Skin and Appendages: Allergic (Multiple organ involvement) Anaphylaxix.
Skin corrosion/irritation	: Causes skin irritation.
	Skin - rabbit - Result: No skin irritation - 4 h
Serious eye damage/irritation	: Causes serious eye irritation.
	Eyes - rabbit - No eye irritation (OCED Test Guideline 405)
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
L-LEUCINE (D10, 98%) (106972-44-5)	
NOAEL (oral,rat,90 days)	3840 mg/kg bodyweight/day female
L-SERINE (3,3-D2, 98%) (95034-57-4)	
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.

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SECTION 12: Ecological information	
12.1. Toxicity	
ALGAL AMINO ACID MIXTURE (U-D, 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-GLUTAMIC ACID (2,3,3,4,4-D5, 98%) (2784-5	
LC50 fish 1	> 100 mg/l Cyprinus carpio (Carp) - 96 h - static test
EC50 Daphnia 1	> 100 g/l Daphnia magna (Water flea) - 48 h
EC50 other aquatic organisms 1	> 31 mg/l Pseudokirchneriella subcapitata (green algae) - 72 h - static test
L-ALANINE (D7, 98%) (74280-71-0)	1 10 0 7
EC50 Daphnia 1	> 100 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)
L-PROLINE (D7, 97-98%) (147-85-3 (Unlabeled	
EC50 Daphnia 1	> 100 mg/l - Daphnia magna (Water flea) - 48 h
	7 Too mg. Papinia magna (trace nea) To n
L-VALINE (D8, 98%) (35045-72-8) LC50 fish 1	> 10 g/l Danio rerio (zebra fish) - (OECD Test Guideline 203) 96 h
EC50 Daphnia 1	> 10 g/l Daphnia magna (Water flea) - (OECD Test Guideline 200) 24 h
·	
L-SERINE (3,3-D2, 98%) (95034-57-4) 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
sguo	Test Guideline 201)
12.2. Persistence and degradability	
ALGAL AMINO ACID MIXTURE (U-D, 98%)	
Persistence and degradability	Aerobic - exposure time: 28 d.
Biodegradation	82 % Readily biodegradable
L-LYSINE:2HCL (D9, 98%) (657-26-1 (Unlabele	d))
Persistence and degradability	Not available.
L-GLUTAMIC ACID (2,3,3,4,4-D5, 98%) (2784-5	0-1)
Persistence and degradability	Aerobic - exposure time: 28 d.
Biodegradation	97 % Readily biodegradable
L-VALINE (D8, 98%) (35045-72-8)	
Persistence and degradability	Aerobic - exposure time: 28 d.
L-SERINE (3,3-D2, 98%) (95034-57-4)	
Persistence and degradability	Aerobic - exposure time: 28 d.
Biodegradation	81 % Readily biodegradable (OECD Test Guideline 301)
12.3. Bioaccumulative potential	
L-LYSINE:2HCL (D9, 98%) (657-26-1 (Unlabele	d))
Bioaccumulative potential	Not available.
L-GLUTAMIC ACID (2,3,3,4,4-D5, 98%) (2784-5	
Log Pow	< -4 at 20 °C (68 °F)
L-ALANINE (D7, 98%) (74280-71-0)	( )
L-ALANINE (D7, 96%) (74260-71-0) Log Pow	-2.74 at 20 °C (68 °F)
- U	
L-THREONINE (D5, 98%) (72-19-5 (Unlabeled)) Log Pow	-1.43
•	UT-V
L-VALINE (D8, 98%) (35045-72-8)	2.000.00.00.00.00.00
Log Pow	-2.259 at 20 °C (68 °F)
L-ISOLEUCINE (D10, 98%) (73-32-5 (Unlabeled	
Log Pow	-1.58
L-SERINE (3,3-D2, 98%) (95034-57-4)	
Log Pow	-3.069 at 20 °C (68 °F)
L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))	
Log Pow	-2.26 at 25 °C (77 °F)
12.4. Mobility in soil	

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

Ecology - soil Not available.

#### 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.

Product/Packaging disposal recommendations : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material.

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.

Special transport precautions : Not classified as dangerous in the meaning of transport regulations.

#### **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

Special transport precautions : Not classified as dangerous in the meaning of transport regulations.

#### 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-LYSINE:2HCL (D9, 98%) (657-26-1 (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-ASPARTIC ACID (2,3,3-D3, 98%) (3842-25-9)		
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-GLUTAMIC ACID (2,3,3,4,4-D5, 98%) (2784-50-1)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302	

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LEUCINE (D10, 98%) (106972-44-5)  ARAR Section 302 Threshold Planning Outlourity (TPO) SARA Section 313 Threshold Planning Outlourity (TPO) SARA Section 303 Threshold Planning Outlourity (TPO	5, 2012 / Rules and Regulations	
SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 303 Threshold Planning Quantity (TPQ) SARA S		·
SARA Section 302 Threshold Planning Cuantity (TPO) SARA Section 313 - Emission Reporting LALANINE (D7, 98%) (7428-07-10) SARA Section 303 - Emission Reporting LALANINE (D7, 98%) (7428-07-10) SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Cuantity (TPO) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Cuantity (TPO) SARA Section 315 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 LARGININE:HCL (D7, 98%) (20424-77-9) SARA Section 311-312 Hazard Classes Immediate (acute) health hazard 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-PROLINE (D7, 97-98%) (147-85-3 (Unlabeled)) SARA Section 302 Threshold Planning Quantity (TPO) SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 SARA Section 315 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 SARA Section 313 - Emission Reporting Not subject to reporting requiremen	SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
Act subject to reporting requirements of the United States SARA Section 313	L-LEUCINE (D10, 98%) (106972-44-5)	
LALANINE (07, 98%) (7428-71-9)  SARA Section 302 Threshold Planning output (south) (TPC)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313 - Large (acute) health hazard  Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPC)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPC)  Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPC)  Not subject to reporting requirements of the United States SARA Section 313 Line Instance (acute) health hazard  Not subject to reporting requirements of the United States SARA Section 313 Line Instance (acute) health hazard  Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPC)  SARA Section 302 Threshold Planning  Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPC)  SARA Section 302 Threshold Planning  Not subject to reporting requirements of the United States SARA Section 313 GEYLNIE (DS, 98%) (4896-77-9)  SARA Section 302 Threshold Planning  Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPC)  SARA Section 302 Threshold Planning  Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPC)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313 LITHERONINE (DS, 98%) (72-19-5 (Unlabeled))  Not subject to reporting requirements of the United States SARA Section 313 LITHERONINE (DS, 98%) (72-19-5 (Unlabeled))  Not subject to reporting requirements of the United States SARA Section 313 LITHERONINE (DS, 98%) (83-91-2 (Unlabeled))  Not subject to reporting requirements of the United States SARA Section 313 LITHERONINE (DS, 98%) (83-91-2 (Unlabeled))  Not subject to reporting requirements of the United States SARA Section 313 LITHERONINE (DS, 98%) (95-91-2 (Unlabeled))  No	SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 L-RAGININE-HCL (07, 98%) (204244-77-9) SARA Section 317-312 Hazard Classes Immediate (acute) health hazard Quantity (TPO) SARA Section 317-312 Hazard Classes Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313 L-PROLINE (07, 97-98%) (147-85-3 (Unitabeled)) SARA Section 302 Threshold Planning Quantity (TPO) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) SARA Section 303 Threshold Planning Quantity (TPO) Title III, Section 302 SARA Section 303 Threshold Planning SARA Section 303 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313 L-VALINE (DB, 98%) (35045-72-8) SARA Section 303 Threshold Planning Quantity (TPO) Not subject to reporting requirements of the United States SARA Section 313 L-VALINE (DB, 98%) (35045-72-8) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) SARA Section 303 Threshold Planning Quantity (TPO) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) SARA Section 303 Threshold Planning Quantity (TPO) Not subject to reporting requirements of the United States SARA Section 303 L-PERENNELALANNE (DB, 98%) (959	SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
Quantity (TPC)  ARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPC)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPC)  SARA Section 317-312 Hazard Classes  Immediate (acute) health hazard  SARA Section 317-312 Hazard Classes  Immediate (acute) health hazard  SARA Section 317-312 Hazard Classes  Immediate (acute) health hazard  SARA Section 317-312 Hazard Classes  Immediate (acute) health hazard  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-PROLINE (D7, 97-98%) (147-85-3 (Uniabeled))  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPC)  SARA Section 302 Threshold Planning  Quantity (TPC)  SARA Section 303 Threshold Planning  Quantity (TPC)  Not subject to reporting requirements of the United States SARA Section 313  L-VALINE (D8, 98%) (1504-72-19-5 (Unlabeled))  SARA Section 303 Threshold Planning  Quantity (TPC)  Not subject to reporting requirements of the United States SARA Section 313  L-VALINE (D8, 98%) (1504-57-8)  Not subject to reporting requirements of the United States SARA Section 313  L-VALINE (D8, 98%) (1504-57-8)  Not subject to reporting requirements of the United States SARA Section 313  L-VALINE (D8, 98%) (1504-57-8)  Not subject to reporting requirements of the United States SARA Section 313  L-VALINE (D8, 98%) (1504-57-8)  Not subject to reporting requirements of the United States SARA Section 313  L-VALINE (D8, 98%) (1504-57-8)  Not subject to reporting requirements of the United States SARA Section 313  L-VALINE (D8, 98%) (1504-57-4)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States	L-ALANINE (D7, 98%) (74280-71-0)	
LARGININE:HCL (D7, 98%) (204244-77-9)  SARA Section 302 Threshold Planning	SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPC) SARA Section 313- Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 — Not subject to reporting requirements of the United States SARA Section 313 — SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPC) SARA Section 303 — SARA Section 303 — SARA Section 304 Threshold Planning Not subject to reporting requirements of the United States SARA Section 303 QUARD SARA Section 303 — Not subject to reporting requirements of the United States SARA Section 303 QUARD SARA Section 303 — Not subject to reporting requirements of the United States SARA Section 303 QUARD SARA Section 303 — Not subject to reporting requirements of the United States SARA Section 303 — Not subject to reporting requirements of the United States SARA Section 303 — Not subject to reporting requirements of the United States SARA Section 303 — Not subject to reporting requirements of the United States SARA Section 313 — LTHREONINE (DS, 98%) (72-19-5 (Unlabeled)) SARA Section 303 — Threshold Planning Not subject to reporting requirements of the United States SARA Section 313 — Not subject to reporting requirements of the United States SARA Section 313 — Not subject to reporting requirements of the United States SARA Section 313 — Not subject to reporting requirements of the United States SARA Section 303 — Not subject to reporting requirements of the United States SARA Section 313 — Not subject to reporting requirements of the United States SARA Section 313 — United States SARA Section 303 — Not subject to reporting requirements of the United States SARA Section 313 — United States SARA Section 303 — Not subject to reporting requirements of the United States SARA Section 313 — United States SARA Section 313 — Desire Not subject to reporting requirements of the United States SARA Section 313 — Desire Not subject to	SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
Quantity (TPO) SARA Section 313-12 Hazard Classes  Immediate (acute) health hazard  Not subject to reporting requirements of the United States SARA Section 313  L-PROLINE (D7, 97-98%) (147-85-3 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPO) SARA Section 303-1 Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  GLYCINE (D5, 98%) (4896-77-9)  SARA Section 302 Threshold Planning Quantity (TPO) SARA Section 302 Threshold Planning Quantity (TPO) SARA Section 302 Threshold Planning SARA Section 302 Threshold Planning SARA Section 302 Threshold Planning Quantity (TPO) SARA Section 302 Threshold Planning SARA Section 302 Threshold Planning Quantity (TPO) SARA Section 302 Threshold Planning SARA Section 302 Threshold Planning Quantity (TPO) SARA Section 313- Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-VALINE (D8, 98%) (35045-72-8) SARA Section 302 Threshold Planning Quantity (TPO) SARA Section 302 Threshold Planning Quantity (TPO) SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 303 L-PHEMYLALANINE (D8, 98%) (63-91-2 (Unlabeled)) SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 303 L-PHEMYLALANINE (D8, 98%) (63-91-2 (Unlabeled)) SARA Section 301 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 303 L-PHEMYLALANINE (D8, 98%) (63-91-2 (Unlabeled)) S	L-ARGININE:HCL (D7, 98%) (204244-77-9)	
SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-PROLINE (07, 97-98%) (147-95-3 (Unilabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  GLYCINE (05, 98%) (4896-77-9)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 303 Quantity (TPQ)  SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-THREONINE (05, 98%) (72-19-5 (Unilabeled))  SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-THREONINE (05, 98%) (72-19-5 (Unilabeled))  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-THREONINE (05, 98%) (35045-72-8)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-ISOLEUCINE (010, 98%) (35045-72-8)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-ISOLEUCINE (010, 98%) (35045-72-8)  SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-ISOLEUCINE (010, 98%) (35045-72-8)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-ISOLEUCINE (010, 98%) (35045-72-8)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-ISOLEUCINE (010, 98%) (60-18-4 (Unilabeled))  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-ISOLEUCINE (010, 98%) (60-18-4 (Unilabeled))  SARA Section 302 Threshold Pla	SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
L-PROLINE (D7, 97-98%) (147-85-3 (Unlabeled))  SARA Section 302 Threshold Planning	SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 302 Threshold Planning Ouantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  GLYCINE (D5, 98%) (4896-77-9) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Ouantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302 Cuantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  LTHREONINE (D5, 98%) (72-19-5 (Unlabeled)) SARA Section 302 Threshold Planning Cuantity (TPQ) SARA Section 302 Threshold Planning Cuantity (TPQ) Not subject to reporting requirements of the United States SARA Section 313  LVALINE (D8, 98%) (35045-72-8) SARA Section 302 Threshold Planning Ouantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302 Ouantity (TPQ) SARA Section 302 Threshold Planning Ouantity (TPQ) Not subject to reporting requirements of the United States SARA Section 303  LISOLEUCINE (D1, 98%) (73-32-5 (Unlabeled)) SARA Section 303 Threshold Planning Ouantity (TPQ) Not subject to reporting requirements of the United States SARA Section 303  LiPHENYLALANINE (D8, 98%) (63-91-2 (Unlabeled)) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 303  LPHENYLALANINE (D8, 98%) (63-91-2 (Unlabeled)) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 303  LPHENYLALANINE (D8, 98%) (66-91-4 (Unlabeled)) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 303  LPTYROSINE (3,3-02, 98%) (95034-57-4) SARA Section 302 Threshold Planning Ouantity (TPQ) Not subject to reporting requirements of the United States SARA Section 303  LPTYROSINE (D7, 98%) (66-18-4 (Unlabeled)) SARA Section 302 Threshold Planning Ouantity (TPQ) Not subject to reporting requirements of the United States SARA Section 3	SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  LTHREONINE (DS, 98%) (72-19-5 (Unlabeled)) SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  LTHREONINE (DS, 98%) (72-19-5 (Unlabeled)) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  LVALINE (DS, 98%) (35045-72-8) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  LISOLEUCINE (D10, 98%) (73-32-5 (Unlabeled)) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 303  LiPHENYLALANINE (D8, 98%) (63-91-2 (Unlabeled)) SARA Section 303 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 303  L-FFIRM (3,3-D2, 98%) (95034-57-4) SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) Not subject to reporting requirements of the United S	L-PROLINE (D7, 97-98%) (147-85-3 (Unlabeled	d))
GLYCINE (D5, 98%) (4896-77-9)  SARA Section 302 Threshold Planning	SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 302 Threshold Planning Ouantity (TPO) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-THREONINE (D5, 98%) (72-19-5 (Unlabeled)) SARA Section 302 Threshold Planning Ouantity (TPO) SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-VALINE (D8, 98%) (35045-72-8) SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Ouantity (TPO) Not subject to reporting requirements of the United States SARA Section 302 Ouantity (TPO) Not subject to reporting requirements of the United States SARA Section 302 Ouantity (TPO) SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-SOLEUCINE (D10, 98%) (73-32-5 (Unlabeled)) SARA Section 303 Threshold Planning Ouantity (TPO) SARA Section 303 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Ouantity (TPO) SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 303  L-PHENYLALANINE (D8, 98%) (63-91-2 (Unlabeled)) SARA Section 303 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Ouantity (TPO) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 303  L-SERINE (3,3-D2, 98%) (95034-57-4) SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 303  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled)) SARA Section 303 Threshold Planning Not subject to reporting requirements of the United States SARA Section 303  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled)) SARA Section 303 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled)) SARA Section 303 Threshold Planning Not subject to reporting requirements of the Unite	SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
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L-THREONINE (D5, 98%) (72-19-5 (Unlabeled))  SARA Section 302 Threshold Planning (Unlabeled)  SARA Section 302 Threshold Planning (Not subject to reporting requirements of the United States SARA Section 313  L-VALINE (D8, 98%) (35045-72-8)  SARA Section 302 Threshold Planning (Not subject to reporting requirements of the United States SARA Section 302 (Quantity (TPQ))  SARA Section 313 - Emission Reporting (Not subject to reporting requirements of the United States SARA Section 302 (Quantity (TPQ))  SARA Section 313 - Emission Reporting (Not subject to reporting requirements of the United States SARA Section 313 (L-ISOLUCINE (D10, 98%) (73-32-5 (Unlabeled)))  SARA Section 302 Threshold Planning (Not subject to reporting requirements of the United States SARA Section 302 (Quantity (TPQ)) (Not subject to reporting requirements of the United States SARA Section 302 (Quantity (TPQ)) (Not subject to reporting requirements of the United States SARA Section 313 (L-PHENYLALANINE (D8, 98%) (63-91-2 (Unlabeled)))  SARA Section 302 Threshold Planning (Not subject to reporting requirements of the United States SARA Section 302 (Quantity (TPQ)) (Not subject to reporting requirements of the United States SARA Section 302 (Quantity (TPQ)) (Not subject to reporting requirements of the United States SARA Section 313 (L-SERINE (3,3-02, 98%) (95034-57-4) (SARA Section 302 Threshold Planning (Not subject to reporting requirements of the United States SARA Section 302 (Quantity (TPQ)) (Not subject to reporting requirements of the United States SARA Section 303 (Not subject to reporting requirements of the United States SARA Section 303 (Not subject to reporting requirements of the United States SARA Section 303 (Not subject to reporting requirements of the United States SARA Section 303 (Not subject to reporting requirements of the United States SARA Section 303 (Not subject to reporting requirements of the United States SARA Section 303 (Not subject to reporting requirements of the United States SARA Section 303 (Not subject to re	SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L'VALINE (D8, 98%) (35045-72-8)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 303 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 303 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 303  L-PHENYLALANINE (D8, 98%) (63-91-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 303  L-SERINE (3,3-D2, 98%) (95034-57-4)  SARA Section 303 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 303  Cuantity (TPQ)  SARA Section 303 Threshold Planning Not subject to reporting requirements of the United States SARA Section 303  Cuantity (TPQ)  SARA Section 303 Threshold Planning Not subject to reporting requirements of the United States SARA Section 303  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))  SARA Section 301 Threshold Planning Not subject to reporting requirements of the United States SARA Section 303  L-HISTIDINE:HCL:H20 (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  Not subject to reporting requirements of the United States SARA Section 303  L-HISTIDINE:HCL:H20 (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  Not subject to reporting requiremen	SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
ARA Section 302 SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 - Evaluation (TPO) SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) SARA Section 303 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPO) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 303 SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 303 SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 303 SARA Section 313 - Emission Reporting	L-THREONINE (D5, 98%) (72-19-5 (Unlabeled)	)
L-VALINE (D8, 98%) (35045-72-8)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-ISOLEUCINE (D10, 98%) (73-32-5 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-PHENYLALANINE (D8, 98%) (63-91-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting	SARA Section 302 Threshold Planning Quantity (TPQ)	
SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  LISOLEUCINE (D10, 98%) (73-32-5 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  LPHENYLALANINE (D8, 98%) (63-91-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-SERINE (3,3-D2, 98%) (95034-57-4) SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 313  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled)) SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 313  L-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled)) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled)) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled)) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States S	SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
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L-ISOLEUCINE (D10, 98%) (73-32-5 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-PHENYLALANINE (D8, 98%) (63-91-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-SERINE (3,3-D2, 98%) (95034-57-4)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-HISTIDINE:HCL:H20 (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302  ARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302  ARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302  ARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Secti	SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-PHENYLALANINE (D8, 98%) (63-91-2 (Unlabeled)) SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-SERINE (3,3-D2, 98%) (95034-57-4) SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled)) SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled)) SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302 Quantity (TPQ)	SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-PHENYLALANINE (D8, 98%) (63-91-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-HISTIDINE:HCL:H20 (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 303  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 303  Not subject to reporting requirements of the United States SARA Section 303  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 303	L-ISOLEUCINE (D10, 98%) (73-32-5 (Unlabele	d))
L-PHENYLALANINE (D8, 98%) (63-91-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-SERINE (3,3-D2, 98%) (95034-57-4)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  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-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302	SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-SERINE (3,3-D2, 98%) (95034-57-4)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 303 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  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-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 313  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  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
Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-SERINE (3,3-D2, 98%) (95034-57-4)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  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 302  L-HISTIDINE:HCL:H20 (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 313  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 313  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)	L-PHENYLALANINE (D8, 98%) (63-91-2 (Unlai	peled))
L-SERINE (3,3-D2, 98%) (95034-57-4)  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  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-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 303  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302	SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 302 Threshold Planning Quantity (TPQ)  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-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 303 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302  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
Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  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-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302	L-SERINE (3,3-D2, 98%) (95034-57-4)	
L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  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-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)	SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 302 Threshold Planning Quantity (TPQ)  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-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)	SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
Quantity (TPQ)  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-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)	L-TYROSINE (D7, 98%) (60-18-4 (Unlabeled))	
SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302  Not subject to reporting requirements of the United States SARA Section 302	SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
L-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 98%) (5934-29-2 (Unlabeled))  SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)	SARA Section 311/312 Hazard Classes	
SARA Section 302 Threshold Planning Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 302  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)	SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
Quantity (TPQ)  SARA Section 313 - Emission Reporting  Not subject to reporting requirements of the United States SARA Section 313  L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302  Quantity (TPQ)	L-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA	BETA, BETA-D3, 98%) <b>(5934-29-2 (Unlabeled))</b>
L-METHIONINE (METHYL-D3, 98%) (13010-53-2)  SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302	SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
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
Quantity (TPQ)	L-METHIONINE (METHYL-D3, 98%) (13010-53	-2)
SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313	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

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# 15.2. International regulations

#### **CANADA**

No additional information available

#### **National regulations**

No additional information available

# 15.3. US State regulations

ALGAL AMINO ACID MIX		1		
U.S California - Proposition 65 - Carcinogens List		No		
U.S California - Proposition Toxicity	on 65 - Developmental	No		
U.S California - Proposition	on 65 - Reproductive	No		
U.S California - Proposition Toxicity - Male	on 65 - Reproductive	No		
State or local regulations		U.S Pennsylvania - RTK (Ri U.S New Jersey - Right to K	ight to Know) List (now Hazardous Substance Lis	t
L-LYSINE:2HCL (D9, 98%	) (657-26-1 (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	
	D2 08%) (2842 25 0)			
L-ASPARTIC ACID (2,3,3-		II.C. California	III California	No cientificant del level
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-GLUTAMIC ACID (2,3,3,	4,4-D5, 98%) (2784-50-1)			
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%) (10	06972-44-5)			
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-ALANINE (D7, 98%) (74	280-71-0)			<u> </u>
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-ARGININE:HCL (D7, 98°	%) (204244-77-9)			
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-PROLINE (D7, 97-98%)	(147-85-3 (Unlabeled))	<u> </u>		<u>,                                      </u>
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)
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	No	No	No	
21 VOINE (DE 000/) (4000 3	77.0\			
GLYCINE (D5, 98%) (4896-7 J.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(NSKL)
Jarcinogens List	Developmental Toxicity	Female	Male	
		1 emale	Wale	
No	No	No	No	
THREONINE (D5, 98%) (7				
J.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
VALINE (D8, 98%) (35045	72-8)			
J.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	( /
	TITE TOMONY	Female	Male	
No	No	No	No	
-		110	110	
ISOLEUCINE (D10, 98%) (		1110 0011/101101	LI O California	No simulfinate vialulatura
J.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
		Female	iviale	
No	No	No	No	
PHENYLALANINE (D8, 98	3%) (63-91-2 (Unlabeled))			
J.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
-		Female	Male	
No	No	No	No	
-SERINE (3,3-D2, 98%) (95	(024 57 4)			
J.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(ITOILE)
Zarcinogens List	Developmental Toxicity	Female	Male	
No	No	No	No	
TYROSINE (D7, 98%) (60-				
J.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
-HISTIDINE:HCL:H2O (RIN	IG-2,4-D2; ALPHA, BETA, F	BETA-D3, 98%) <b>(5934-29-2 (U</b> i	nlabeled))	
J.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
-	•	Female	Male	
No	No	No	No	
METHIONINE (METHYL-D	13 98%) (13010-53-2)			
J.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(14011)
Proposition 65 -				
	Developmental Toxicity	Female	Male	
Proposition 65 - Carcinogens List	,			
Proposition 65 -	No No	Female No	No Male	

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U.S. - Pennsylvania - RTK (Right to Know) List

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

U.S. - New Jersey - Right to Know Hazardous Substance List

### L-ASPARTIC ACID (2,3,3-D3, 98%) (3842-25-9)

#### 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%) (2784-50-1)

#### 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%) (106972-44-5)

#### State or local regulations

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

### L-ALANINE (D7, 98%) (74280-71-0)

## 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%) (204244-77-9)

#### 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, 97-98%) (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

# GLYCINE (D5, 98%) (4896-77-9)

# 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, 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-VALINE (D8, 98%) (35045-72-8)

# 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%) (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-PHENYLALANINE (D8, 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-SERINE (3,3-D2, 98%) (95034-57-4)

#### 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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# 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

#### L-TYROSINE (D7, 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

### L-HISTIDINE:HCL:H2O (RING-2,4-D2; ALPHA, BETA, BETA-D3, 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-METHIONINE (METHYL-D3, 98%) (13010-53-2)

#### 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**

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

# 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

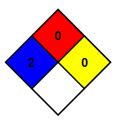
temporary incapacitation or residual injury.

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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