

# **CAMBRIDGE ISOTOPE LABORATORIES**

#### PRODUCT AND COMPANY IDENTIFICATION

Product Name: Mouse Express L-LEUCINE (5,5,5-D3, 99%)

MOUSE FEED KIT

-and-

Mouse Express L-LEUCINE (5,5,5-D3, 99%)

MOUSE FEED KIT IRRADIATED

Catalog No: MLK-LEU-D3 & MLK-LEU-D3-IR

Company: Cambridge Isotope Laboratories Inc.

50 Frontage Road Andover, MA. 01810

**USA** 

Telephone: 1-800-322-1174 International information 1-978-749-8000 Emergency: 1-800-424-9300 International Emergency 1-202-483-7616

#### HAZARDS IDENTIFICATION

#### **Emergency Overview**

# **OSHA Hazards**

Not a hazardous substance or mixture

GHS Classification(s)

Not a hazardous substance or mixture

GHS Label elements, including precautionary statements

Hazard statement(s)

See individual Safety Data Sheets

### **COMPOSITION**

Each kit contains two items:

MF-LEU-D3 Mouse Express L-LEUCINE (5,5,5-D3, 99%) MOUSE FEED

MF-UNLABELED MOUSE FEED MOUSE FEED

-or-

MF-LEU-D3-IR Mouse Express L-LEUCINE (5,5,5-D3, 99%) IRRADIATED MOUSE FEED

MF-UNLABELED-IR Mouse Express UNLABELED IRRADIATED MOUSE FEED



# 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: 27/02/2013 Revision date: 17/05/2017 Supersedes: 27/02/2013 Version: 2.0

MF-LEU-D3

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

#### 1.1. Product identifier

Product form : Mixtures

Product name : Mouse Express L-LEUCINE (5,5,5-D3, 99%) MOUSE FEED

Product code : MF-LEU-D3
Other means of identification : Also applicable to:

MF-LEU-D3-IR (5,5,5-D3, 99%) IRRADIATED

#### 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

#### **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]

Not classified

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

Not classified

#### **GHS-US** classification

Not classified

## Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazardous ingredients : L-LYSINE:HCL UNLABELED

#### **GHS-US** labelling

No labelling applicable

#### 2.3. Other hazards

No additional information available

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

## 3.1. Substances

Not applicable

# 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
SUCROSE UNLABELED	(CAS No) 57-50-1 (EC No) 200-334-9	35.273	Not classified
CORN STARCH UNLABELED	(CAS No) 9005-25-8 (EC No) 232-679-6 (EC Index No)	15	Not classified
MALTODEXTRIN UNLABELED	(CAS No) 9050-36-6 (EC No) (EC Index No)	15	Not classified
SOYBEAN OIL UNLABELED	(CAS No) 8001-22-7 (EC No) 232-274-4	8	Not classified
L-GLUTAMIC ACID UNLABELED	(CAS No) 56-86-0 (EC No) 200-293-7	4	Not classified
MINERAL MIX, AIN-93M-MX (94049) UNLABELED	(CAS No) (EC No) (EC Index No)	3.5	Not classified
CELLULOSE UNLABELED	(CAS No) 9004-34-6 (EC No) 232-674-9	3	Not classified
GLYCINE UNLABELED	(CAS No) 56-40-6 (EC No) 200-272-2	2.33	Not classified
VITAMIN MIX, AIN-93-VX (94047) UNLABELED	(CAS No) (EC No) (EC Index No)	1.95	Not classified
L-ARGININE:HCL UNLABELED	(CAS No) 1119-34-2 (EC No) 214-275-1	1.21	Xi; R36/38
L-LEUCINE (5,5,5-D3, 99%)	(CAS No) 87828-86-2 (EC No) 200-522-0 (Unlabeled)	1.11	Not classified
L-LYSINE:HCL UNLABELED	(CAS No) 657-26-1 (EC No) 211-518-3	1	Not classified
L-ISOLEUCINE UNLABELED	(CAS No) 73-32-5 (EC No) 200-798-2	0.82	Not classified
L-METHIONINE UNLABELED	(CAS No) 63-68-3 (EC No) 200-562-9	0.82	Not classified
L-VALINE UNLABELED	(CAS No) 72-18-4 (EC No) 200-773-6	0.82	Not classified
L-THREONINE UNLABELED	(CAS No) 72-19-5 (EC No) 200-774-1	0.82	Not classified
CALCIUM PHOSPHATE MONOBASIC MONOHYDRATE UNLABELED	(CAS No) 10031-30-8 (EC No) 231-837-1 (EC Index No)	0.82	Xi; R36/37/38
L-PHENYLALANINE UNLABELED	(CAS No) 63-91-2 (EC No) 200-568-1	0.75	Not classified
L-ASPARAGINE UNLABELED	(CAS No) 70-47-3 (EC No) 200-735-9 (EC Index No)	0.6	Not classified
L-TYROSINE UNLABELED	(CAS No) 60-18-4 (EC No) 200-460-4	0.5	Xi; R36/37/38
L-HISTIDINE:HCL:H2O UNLABELED	(CAS No) 71-00-1 (EC No) 200-745-3	0.45	Not classified
L-ALANINE UNLABELED	(CAS No) 56-41-7 (EC No) 200-273-8	0.35	Not classified
L-ASPARTIC ACID UNLABELED	(CAS No) 56-84-8 (EC No) 200-291-6	0.35	Not classified
L-CYSTINE UNLABELED	(CAS No) 56-89-3 (EC No) 200-296-3	0.35	Not classified
L-PROLINE UNLABELED	(CAS No) 147-85-3 (EC No) 205-702-2	0.35	Not classified
L-SERINE UNLABELED	(CAS No) 302-84-1 (EC No) 206-130-6	0.35	Not classified
CHOLINE BITARTRATE UNLABELED	(CAS No) 87-67-2 (EC No) 201-763-4 (EC Index No)	0.275	Not classified
L-TRYPTOPHAN UNLABELED	(CAS No) 73-22-3 (EC No) 200-795-6	0.18	Not classified
BLUE FOOD COLOR UNLABELED	(CAS No) 3844-45-9 (EC No) (EC Index No)	0.01	Not classified
RED FOOD COLOR UNLABELED	(EC No) (EC Index No)	0.01	Not classified
TBHQ UNLABELED	(CAS No) 1948-33-0 (EC No) 217-752-2	0.002	Not classified

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SUCROSE UNLABELED

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	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
SUCROSE UNLABELED	(CAS No) 57-50-1 (EC No) 200-334-9	35.273	Not classified
CORN STARCH UNLABELED	(CAS No) 9005-25-8 (EC No) 232-679-6 (EC Index No)	15	Not classified
MALTODEXTRIN UNLABELED	(CAS No) 9050-36-6 (EC No) (EC Index No)	15	Not classified
SOYBEAN OIL UNLABELED	(CAS No) 8001-22-7 (EC No) 232-274-4	8	Not classified
L-GLUTAMIC ACID UNLABELED	(CAS No) 56-86-0 (EC No) 200-293-7	4	Not classified
MINERAL MIX, AIN-93M-MX (94049) UNLABELED	(CAS No) (EC No) (EC Index No)	3.5	Not classified
CELLULOSE UNLABELED	(CAS No) 9004-34-6 (EC No) 232-674-9	3	Not classified
GLYCINE UNLABELED	(CAS No) 56-40-6 (EC No) 200-272-2	2.33	Not classified
VITAMIN MIX, AIN-93-VX (94047) UNLABELED	(CAS No) (EC No) (EC Index No)	1.95	Not classified
L-ARGININE:HCL UNLABELED	(CAS No) 1119-34-2 (EC No) 214-275-1	1.21	Skin Irrit. 2, H315 Eye Irrit. 2, H319
L-LEUCINE (5,5,5-D3, 99%)	(CAS No) 87828-86-2 (EC No) 200-522-0 (Unlabeled)	1.11	Not classified
L-LYSINE:HCL UNLABELED	(CAS No) 657-26-1 (EC No) 211-518-3	1	Skin Sens. 1, H317
L-ISOLEUCINE UNLABELED	(CAS No) 73-32-5 (EC No) 200-798-2	0.82	Not classified
L-METHIONINE UNLABELED	(CAS No) 63-68-3 (EC No) 200-562-9	0.82	Not classified
L-VALINE UNLABELED	(CAS No) 72-18-4 (EC No) 200-773-6	0.82	Not classified
L-THREONINE UNLABELED	(CAS No) 72-19-5 (EC No) 200-774-1	0.82	Not classified
CALCIUM PHOSPHATE MONOBASIC MONOHYDRATE UNLABELED	(CAS No) 10031-30-8 (EC No) 231-837-1 (EC Index No)	0.82	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
L-PHENYLALANINE UNLABELED	(CAS No) 63-91-2 (EC No) 200-568-1	0.75	Not classified
L-ASPARAGINE UNLABELED	(CAS No) 70-47-3 (EC No) 200-735-9 (EC Index No)	0.6	Not classified
L-TYROSINE UNLABELED	(CAS No) 60-18-4 (EC No) 200-460-4	0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
L-HISTIDINE:HCL:H2O UNLABELED	(CAS No) 71-00-1 (EC No) 200-745-3	0.45	Not classified
L-ALANINE UNLABELED	(CAS No) 56-41-7 (EC No) 200-273-8	0.35	Not classified
L-ASPARTIC ACID UNLABELED	(CAS No) 56-84-8 (EC No) 200-291-6	0.35	Not classified
L-CYSTINE UNLABELED	(CAS No) 56-89-3 (EC No) 200-296-3	0.35	Not classified
L-PROLINE UNLABELED	(CAS No) 147-85-3 (EC No) 205-702-2	0.35	Not classified
L-SERINE UNLABELED	(CAS No) 302-84-1 (EC No) 206-130-6	0.35	Not classified
CHOLINE BITARTRATE UNLABELED	(CAS No) 87-67-2 (EC No) 201-763-4 (EC Index No)	0.275	Not classified
L-TRYPTOPHAN UNLABELED	(CAS No) 73-22-3 (EC No) 200-795-6	0.18	Not classified
BLUE FOOD COLOR UNLABELED	(CAS No) 3844-45-9 (EC No) (EC Index No)	0.01	Not classified
RED FOOD COLOR UNLABELED	(EC No) (EC Index No)	0.01	Not classified
TBHQ UNLABELED	(CAS No) 1948-33-0 (EC No) 217-752-2	0.002	Not classified
Name	Product identifier	%	GHS-US classification

 CORN STARCH UNLABELED
 (CAS No) 9005-25-8
 15
 Not classified

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35.273

Not classified

(CAS No) 57-50-1

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Name	Product identifier	%	GHS-US classification
MALTODEXTRIN UNLABELED	(CAS No) 9050-36-6	15	Not classified
SOYBEAN OIL UNLABELED	(CAS No) 8001-22-7	8	Not classified
L-GLUTAMIC ACID UNLABELED	(CAS No) 56-86-0	4	Not classified
MINERAL MIX, AIN-93M-MX (94049) UNLABELED	(CAS No)	3.5	Not classified
CELLULOSE UNLABELED	(CAS No) 9004-34-6	3	Not classified
GLYCINE UNLABELED	(CAS No) 56-40-6	2.33	Not classified
VITAMIN MIX, AIN-93-VX (94047) UNLABELED	(CAS No)	1.95	Not classified
L-ARGININE:HCL UNLABELED	(CAS No) 1119-34-2	1.21	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
L-LEUCINE (5,5,5-D3, 99%)	(CAS No) 87828-86-2	1.11	Not classified
L-LYSINE:HCL UNLABELED	(CAS No) 657-26-1	1	Skin Sens. 1, H317
L-ISOLEUCINE UNLABELED	(CAS No) 73-32-5	0.82	Not classified
L-METHIONINE UNLABELED	(CAS No) 63-68-3	0.82	Not classified
L-VALINE UNLABELED	(CAS No) 72-18-4	0.82	Not classified
L-THREONINE UNLABELED	(CAS No) 72-19-5	0.82	Not classified
CALCIUM PHOSPHATE MONOBASIC MONOHYDRATE UNLABELED	(CAS No) 10031-30-8	0.82	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
L-PHENYLALANINE UNLABELED	(CAS No) 63-91-2	0.75	Not classified
L-ASPARAGINE UNLABELED	(CAS No) 70-47-3	0.6	Not classified
L-TYROSINE UNLABELED	(CAS No) 60-18-4	0.5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
L-HISTIDINE:HCL:H2O UNLABELED	(CAS No) 71-00-1	0.45	Not classified
L-ALANINE UNLABELED	(CAS No) 56-41-7	0.35	Not classified
L-ASPARTIC ACID UNLABELED	(CAS No) 56-84-8	0.35	Not classified
L-CYSTINE UNLABELED	(CAS No) 56-89-3	0.35	Not classified
L-PROLINE UNLABELED	(CAS No) 147-85-3	0.35	Not classified
L-SERINE UNLABELED	(CAS No) 302-84-1	0.35	Not classified
CHOLINE BITARTRATE UNLABELED	(CAS No) 87-67-2	0.275	Not classified
L-TRYPTOPHAN UNLABELED	(CAS No) 73-22-3	0.18	Not classified
BLUE FOOD COLOR UNLABELED	(CAS No) 3844-45-9	0.01	Not classified
RED FOOD COLOR UNLABELED		0.01	Not classified
TBHQ UNLABELED	(CAS No) 1948-33-0	0.002	Not classified

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

# **SECTION 4: First aid measures**

### **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.

### Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/injuries after skin contact : May be harmful in contact with skin. May cause moderate irritation.

Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : May be harmful if swallowed.

#### Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Fire-fighting measures**

#### **Extinguishing media**

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

# Special hazards arising from the substance or mixture

No additional information available

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#### 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 vapours, mist, gas. Avoid dust formation.

#### 6.1.2. For emergency responders

No additional information available

#### 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, shovelling) and collect in suitable container for disposal. This

material and its container must be disposed of in a safe way, and as per local legislation.

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

No additional information available

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation to minimize dust and/or vapour concentrations.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed.

Storage conditions : Store product at 4 C or lower.

### 7.3. Specific end use(s)

No additional information available

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

CHCDOCE HAILABELED /EZ EO 4

SUCROSE UNLABELED (57-	50-1)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
CORN STARCH UNLABELED	) (9005-25-8)	
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ Dermatitis. Not classifiable as a human carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³
SOYBEAN OIL UNLABELED	(8001-22-7)	
Belgium	Limit value (mg/m³)	10 mg/m³ (Huiles végétales (brouillards); Belgium; Time-weighted average exposure limit 8 h)
CELLULOSE UNLABELED (9	0004-34-6)	
Belgium	Limit value (mg/m³)	10 mg/m³ (Cellulose; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m³)	10 mg/m³ (Cellulose (fibre de papier); France; Time- weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (Cellulose; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Cotton dust, raw, untreated; 0.1 mg/m³; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Thoracic fraction)

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CELLULOSE UNLABELED (9004-34-6)		
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ Cellulose inhalable dust; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Cellulose respirable dust; 4 mg/m³; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m³)	20 mg/m³ Cellulose inhalable dust; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

## 8.2. Exposure controls

Physical state

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing : Wear suitable protective clothing and gloves. Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear eye protection. Chemical goggles or face shield with safety glasses.

Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.

Solid

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

Environmental exposure controls : Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance : Pellets. Colour : Grey. Violet. Odour : No data available Odour threshold : No data available No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available : No data available Freezing point **Boiling point** No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) No data available Vapour pressure : No data available Relative vapour 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 No data available Viscosity, dynamic : No data available Explosive properties

#### 9.2. Other information

No additional information available

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

#### 10.1. Reactivity

Oxidising properties

**Explosive limits** 

No additional information available

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: No data available

: No data available

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#### 10.2. Chemical stability

Six months unopened when stored under recommended conditions.

## 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

No additional information available

# 10.5. Incompatible materials

Strong oxidizing agents.

## 10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

L-ALANINE UNLABELED (56-41-7)		
LD50 oral rat	> 5110 mg/kg male and female	
L-ARGININE:HCL UNLABELED (1119-34-2)		
LD50 oral rat	12400 mg/kg	
ATE CLP (oral)	12000.000 mg/kg bodyweight	
L-ASPARTIC ACID UNLABELED (56-84-8)		
LD50 oral rat	5000 mg/kg	
LD50 dermal rabbit	5000 mg/kg	
ATE CLP (oral)	5000.000 mg/kg bodyweight	
ATE CLP (dermal)	5000.000 mg/kg bodyweight	
L-GLUTAMIC ACID UNLABELED (56-86-0)		
LD50 oral rat	> 5110 mg/kg male and female	
LD50 dermal rat	> 2000 mg/kg male and female (OECD Test Guideline 402)	
GLYCINE UNLABELED (56-40-6)		
LD50 oral rat	7930 mg/kg	
ATE CLP (oral)	7930.000 mg/kg bodyweight	
L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)		
LD50 oral rat	> 16000 mg/kg male and female	
LD50 Intraperitoneal - Rat - 5,379 mg/kg Remarks	Lungs, Thorax, or Respiration: Dyspnea. Nutritional and Gross Metabolic: Changes in: Body temperature decrease.	
L-METHIONINE UNLABELED (63-68-3)		
LD50 oral rat	36000 mg/kg Remarks: Behavioral: Change in motor activity (specific assay). Skin and Appendages: Allergic (Multiple organ involvement) Anaphylaxix.	
L-PROLINE UNLABELED (147-85-3)		
LD50 oral rat	> 5110 mg/kg	
L-TRYPTOPHAN UNLABELED (73-22-3)		
LD50 oral rat	> 16000 mg/kg	
L-TYROSINE UNLABELED (60-18-4)		
Additional information	LD50 Intraperitoneal - mouse - > 1,450 mg/kg	
L-VALINE UNLABELED (72-18-4)	7 3 3	
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)	
SUCROSE UNLABELED (57-50-1)		
LD50 oral rat	29700 mg/kg Somnolence, Cyanosis, Diarrhea	
ATE CLP (oral)	29700.000 mg/kg bodyweight	
CELLULOSE UNLABELED (9004-34-6)	•	
LD50 oral rat	> 5000 mg/kg (Rat)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)	
LC50 inhalation rat (mg/l)	> 6 mg/l/4h (Rat)	

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<u> </u>	
CALCIUM PHOSPHATE MONOBASIC MON	OHYDRATE UNLABELED (10031-30-8)
LD50 oral rat	17500 mg/kg Remarks: Peripheral Nerve and Sensation: Flaccid paralysis without anesthesia (usually neuromuscular blockage). Behavioral: Somnolence (general depressed activity). Lungs, Thorax, or Respiration: Respiratory stimulation.
L-HISTIDINE:HCL:H2O UNLABELED (71-00-	1)
LD50 oral rat	15000 mg/kg
ATE CLP (oral)	15000.000 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)	
NOAEL (oral, rat, 90 days)	3840 mg/kg bodyweight/day female
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: 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.
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: May be harmful in contact with skin. May cause moderate irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
Symptoms/injuries after eye contact Symptoms/injuries after ingestion	•

# **SECTION 12: Ecological information**

# 12.1. Toxicity

L-ALANINE UNLABELED (56-41-7)	
EC50 Daphnia 1	> 100 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)
L-GLUTAMIC ACID UNLABELED (56-86-0)	
LC50 fish 1	> 100 mg/l Cyprinus carpio (Carp) - static test - 96 h
EC50 Daphnia 1	> 100 g/l Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)
EC50 other aquatic organisms 1	> 31 mg/l Pseudokirchneriella subcapitata (green algae) - static test - 72 h
L-PROLINE UNLABELED (147-85-3)	
EC50 Daphnia 1	> 100 mg/l - Daphnia magna (Water flea) - 48 h
L-VALINE UNLABELED (72-18-4)	
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 202) - 24 h
CELLULOSE UNLABELED (9004-34-6)	
LC50 fish 1	> 100 mg/l (LC50)
EC50 Daphnia 1	> 100 mg/l (EC50)
Threshold limit algae 1	> 100 mg/l (EC50)

# 12.2. Persistence and degradability

L-ALANINE UNLABELED (56-41-7)		
Persistence and degradability	Not available.	
L-ARGININE:HCL UNLABELED (1119-34-2)	L-ARGININE:HCL UNLABELED (1119-34-2)	
Persistence and degradability  Not available.		
L-ASPARTIC ACID UNLABELED (56-84-8)		
Persistence and degradability	Not available.	
L-GLUTAMIC ACID UNLABELED (56-86-0)		
Persistence and degradability	Aerobic - exposure time: 28 d.	
Biodegradation	97 % Readily biodegradable	

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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

Service Number   Not available.		
LISOLEUCINE UNLABELED (73-32-5) Persistence and degradability L-PHEVILLABELED (68-68-3) Persistence and degradability LONG available. L-PHEVILLABELED (68-68-3) Persistence and degradability Not available. L-PROJINE UNLABELED (147-65-3) Persistence and degradability Not available. L-PROJINE UNLABELED (147-65-3) Persistence and degradability Not available. L-PROJINE UNLABELED (72-19-5) Persistence and degradability Not available. L-TRYPOOPHAIN UNLABELED (72-19-6) Persistence and degradability Not available. L-TRYPOOPHAIN UNLABELED (72-19-6) Persistence and degradability Not available. L-TRYPOOPHAIN UNLABELED (72-19-6) Persistence and degradability Not available. L-VALINE UNLABELED (72-19-6) Persistence and degradability Not available.  L-VALINE UNLABELED (72-19-6) Persistence and degradability Not available.  L-VALINE UNLABELED (67-50-1) Not available.  DEPRESISTENCE AND ASSESSED (73-60-1) Not available.  L-LALAINE UNLABELED (68-17) Log Pow 1-274 at 20 °C (88 °F) Disoccumulative potential Not available.  L-APARTIC ACID UNLABELED (56-8-8-9) Bioaccumulative potential Not available.  L-LEUCINE (55-50-3) 999) (87828-86-9) Bioaccumulative potential Not available.  L-LEUCINE (55-50-3) 9	GLYCINE UNLABELED (56-40-6)	
Persistence and degradability  LLYSINE-HCL UNLABELED (65-28-1) Persistence and degradability  Not available.  LLYSINE-HCL UNLABELED (65-28-1) Persistence and degradability  Not available.  LHETHIONINE UNLABELED (63-88-3) Persistence and degradability  LPHENYLALININE UNLABELED (63-88-3) Persistence and degradability  LPHENYLALININE UNLABELED (63-81-2) Persistence and degradability  Not available.  LPROLINE UNLABELED (72-78-3) Persistence and degradability  Not available.  LTRYPOPHAN UNLABELED (72-79-5) Persistence and degradability  Not available.  LTRYPOPHAN UNLABELED (72-79-5) Persistence and degradability  Not available.  LTRYPOPHAN UNLABELED (72-79-5) Persistence and degradability  Not available.  LTRYPOPHAN UNLABELED (72-79-79-79-79-79-79-79-79-79-79-79-79-79-	<u> </u>	Not available.
L-LEUCINE (5.5-5.93, 99%) (67828-86-2) Persistence and degradability Not available.  L-VISINE/HICL UNLABELED (657-26-1) Persistence and degradability Not available.  L-PHEYVILAIANINE UNLABELED (36-86-3) Persistence and degradability Not available.  L-PHEYVILAIANINE UNLABELED (63-91-2) Persistence and degradability Not available.  L-PHEYVILAIANINE UNLABELED (47-85-3) Persistence and degradability Not available.  L-PROJUNE UNLABELED (197-85-3) Persistence and degradability Not available.  L-THRONINE UNLABELED (72-19-5) Persistence and degradability Not available.  L-TYPROPINE UNLABELED (72-19-5) Persistence and degradability Not available.  L-TYPROSINE UNLABELED (72-19-5) Persistence and degradability Not available.  L-TYPROSINE UNLABELED (73-2-3) Persistence and degradability Not available.  L-YALINE UNLABELED (72-19-4) Persistence and degradability Not available.  L-YALINE UNLABELED (73-19-4) Persistence and degradability Not available.  SUCROSE UNLABELED (60-18-4) Persistence and degradability Not available.  Deprovement of the substance available in water. No (test)data on mobility of the substance available.  SOVERAN OIL UNLABELED (600-12-7) Persistence and degradability Not available.  L-ALINE UNLABELED (60-14-7) Deprovement of the substance available.  DO (% of ThOD) 0,39  CELLULOSE UNLABELED (60-14-7) Every Company of the substance available.  Not available.  L-ALINE UNLABELED (66-41-7) Bloaccumulative potential Not available.  L-ALINE UNLABELED (66-40-6) Not available.  L-LEUCINE (56,5-03, 99%) (87828-86-4) Not available.  L-LEUCINE (56,5-03, 99%) (87828-86-4) Not available.  L-LEUCINE UNLABELED (66-40-6) Not available.  L-LEUCINE UNLABELED (66-40-6) Not available.  L-LEUCINE UNLABELED (66-40-6) Not available.  L-LEUCINE UNLABELED (67-26-1) Not available.  L-LEUCINE UNLABELED (67-26-1) Not available.	, ,	
Persistence and degradability   Not available.	Persistence and degradability	Not available.
L-LYSINE-HCL UNLABELED (657-26-1) Persistence and degradability Not available.  L-PHENYLLAININE UNLABELED (63-68-3) Persistence and degradability Not available.  L-PHENYLLAININE UNLABELED (147-85-3) Persistence and degradability Not available.  L-PROJUNE UNLABELED (147-85-3) Persistence and degradability Not available.  L-SERINE UNLABELED (302-84-1) Persistence and degradability Not available.  L-TRYFORNE UNLABELED (72-19-5) Persistence and degradability Not available.  L-TRYFORNE UNLABELED (72-19-5) Persistence and degradability Not available.  L-TYROSINE UNLABELED (72-19-4) Persistence and degradability Not available.  L-VALINE UNLABELED (60-16-4) Persistence and degradability Acrobic - exposure time: 28 d.  SUCROSE UNLABELED (57-50-1) Persistence and degradability Not available.  L-VALINE UNLABELED (79-0-1) Persistence and degradability Not available.  L-VALINE UNLABELED (60-10-1) Persistence and degradability Not available.  L-VALINE UNLABELED (75-50-1) Persistence and degradability Not available.  CELLULOSE UNLABELED (60-10-1) 0.39  CELLULOSE UNLABELED (60-10-1) 0.39  CELLULOSE UNLABELED (60-10-1) 0.39  CELLULOSE UNLABELED (60-10-1) 0.9 Pow 1-2.74 at 20 °C (68 °F) 0.00 count unlabeled (1119-34-2) 0.00 Pow 1-2.74 at 20 °C (68 °F) 0.00 count unlabeled (1119-34-2) 0.00 Pow 1-2.74 at 20 °C (68 °F) 0.00 count unlabeled (66-40-6) 0.00 count unlabeled (1119-34-2) 0.		
Persistence and degradability   Not available.	Persistence and degradability	Not available.
L-METHIONINE UNLABELED (63-68-3) Persistence and degradability Not available.  L-PROLINE UNLABELED (147-85-3) Persistence and degradability Not available.  L-SPROLINE UNLABELED (302-84-1) Persistence and degradability Not available.  L-TRIEDININE UNLABELED (72-19-5) Persistence and degradability Not available.  L-TRYPTOPHAN UNLABELED (72-19-6) Persistence and degradability Not available.  L-TRYPTOPHAN UNLABELED (72-19-6) Persistence and degradability Not available.  L-YALINE UNLABELED (72-19-4) Persistence and degradability Not available.  L-YALINE UNLABELED (800-12-7) Persistence and degradability Not available.  SOVERAN OIL UNLABELED (800-12-7) Persistence and degradability Not available.  SOVERAN OIL UNLABELED (800-12-7) Persistence and degradability Not available.  CELLULOSE UNLABELED (800-12-7) Persistence and degradability Not available.  CELLULOSE UNLABELED (800-12-7) Depow 1-2, 74 at 20 °C (88 °F) Disaccumulative potential Not available.  L-ARAINE UNLABELED (66-44-7) Log Pow 2, 74 at 20 °C (88 °F) Disaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available.  L-GLUCINE UNLABELED (56-86-8) Bioaccumulative potential Not available.  L-GLUCINE UNLABELED (56-88-8) Bioaccumulative potential Not available.	L-LYSINE:HCL UNLABELED (657-26-1)	
Persistence and degradability Not available.  L-PHENYLALANINE UNLABELED (63-91-2) Persistence and degradability Not available.  L-PROLINE UNLABELED (147-95-3) Persistence and degradability Not available.  L-SERINE UNLABELED (302-84-1) Persistence and degradability Not available.  L-THREONINE UNLABELED (72-19-5) Persistence and degradability Not available.  L-TRYPTOPHAN UNLABELED (72-19-5) Persistence and degradability Not available.  L-TRYPTOPHAN UNLABELED (72-18-4) Persistence and degradability Not available.  L-TYROSINE UNLABELED (72-18-4) Persistence and degradability Not available.  L-VALINE UNLABELED (72-18-4) Persistence and degradability Not available.  SOVBEAN OIL UNLABELED (8001-22-7) Persistence and degradability Not available.  SOVBEAN OIL UNLABELED (8001-22-7) Persistence and degradability Not available.  DECELLULOSE UNLABELED (8001-32-7) Persistence and degradability Not available.  DECELLULOSE UNLABELED (8001-32-7) Log Pow J. 2, 74 at 20 °C (68 °F) Bioaccumulative potential Not available.  L-ARANINE-HCL UNLABELED (58-48-6) Bioaccumulative potential Not available.  L-GLYCINE UNLABELED (58-40-6) Bioaccumulative potential Not available.  L-SPARTIC ACID UNLABELED (58-60-80-80) L-SPARTIC ACID UNLABELED (58-60-80-80) L-SPARTIC ACID UNLABELED (58-60-80-80) L-SPARTIC ACID UNLABELED (58-60-80-80) Bioaccumulative potential Not available.  L-SPARTIC ACID UNLABELED (58-60-80-80) L-SPARTIC ACID UNLABELED (58-60-80-80) Bioaccumulative potential Not available.  L-SPARTIC ACID UNLABEL	Persistence and degradability	Not available.
L-PHENYLALANINE UNLABELED (63-91-2) Persistence and degradability Not available. L-SERINE UNLABELED (147-85-3) Persistence and degradability Not available. L-TRERONINE UNLABELED (72-19-5) Persistence and degradability Not available. L-TRERONINE UNLABELED (72-19-5) Persistence and degradability Not available. L-TRYPTOPHAN UNLABELED (72-19-3) Persistence and degradability Not available. L-TRYPTOPHAN UNLABELED (69-18-4) Persistence and degradability Not available. L-TRUBLE UNLABELED (69-18-4) Persistence and degradability Not available. L-VALINE UNLABELED (72-18-4) Persistence and degradability Not available. SUCROSE UNLABELED (57-50-1) Persistence and degradability Not available. SOVEAN OIL UNLABELED (600-12-27) Persistence and degradability Not available. SOVEAN OIL UNLABELED (600-12-27) Persistence and degradability Not available. SOVEAN OIL UNLABELED (600-12-27) Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available. DOD (% of ThOD) O.39 CELLULOSE UNLABELED (600-43-46) Persistence and degradability Biodegradable in water.  1-2.74 at 20 °C (68 °F) Bioaccumulative potential Not available. L-ASPARTE ACID UNLABELED (56-84-8) Bioaccumulative potential Not available. L-ASPARTE ACID UNLABELED (56-86-6) Bioaccumulative potential Not available. L-ASPARTE ACID UNLABELED (56-86-6) Bioaccumulative potential Not available. L-SPARTE ACID UNLABELED (56-86-8) Not available.	L-METHIONINE UNLABELED (63-68-3)	
Persistence and degradability  L-PROLINE UNLABELED (147-85-3)  Persistence and degradability  Not available.  L-SERINE UNLABELED (302-84-1)  Persistence and degradability  Not available.  L-THREONINE UNLABELED (72-19-5)  Persistence and degradability  Not available.  L-TRYPTOPHAN UNLABELED (73-22-3)  Persistence and degradability  Not available.  L-TRYOSINE UNLABELED (69-18-4)  Persistence and degradability  Not available.  L-VALINE UNLABELED (69-18-4)  Persistence and degradability  Not available.  L-VALINE UNLABELED (57-50-1)  Persistence and degradability  Not available.  SOVBEAN OIL UNLABELED (8001-22-7)  Persistence and degradability  Not readily biodegradable in water. No (test)data on mobility of the substance available.  CELLULOSE UNLABELED (8004-34-6)  Persistence and degradability  Not readily biodegradable in water. No (test)data on mobility of the substance available.  CELLULOSE UNLABELED (9004-34-6)  Persistence and degradability  Biodegradable in water.  12.3. Bioaccumulative potential  L-ALAINIE UNLABELED (66-81-7)  Log Pow  Bioaccumulative potential  Not available.  L-ASPARTIC ACID UNLABELED (1119-34-2)  Bioaccumulative potential  Not available.  L-ASPARTIC ACID UNLABELED (56-86-6)  Bioaccumulative potential  Not available.  L-ISULEUCINLABELED (56-80-6)  Bioaccumulative potential  Not available.  L-ISULEUCIN UNLABELED (56-80-8)  Bioaccumulative potential  Not available.  L-ISULEUCIN UNLABELED (56-80-8)	Persistence and degradability	Not available.
L-PROLINE UNLABELED (147-85-3) Persistence and degradability Not available. L-SERINE UNLABELED (302-84-1) Persistence and degradability Not available. L-TRRONINE UNLABELED (73-22-3) Persistence and degradability Not available. L-TRYOPHAN UNLABELED (67-82-3) Persistence and degradability Not available. L-TRYOSINE UNLABELED (69-18-4) Persistence and degradability Not available. L-TRYOSINE UNLABELED (69-18-4) Persistence and degradability Not available. L-VALINE UNLABELED (75-60-1) Persistence and degradability Not available. L-VALINE UNLABELED (75-60-1) Persistence and degradability Not available. SOCRE UNLABELED (57-50-1) Persistence and degradability Not available. SOCRE UNLABELED (60-18-22-7) Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available. DOC (% of ThOD) O, 39  CELLULOSE UNLABELED (600-43-6) Persistence and degradability Biodegradable in water.  L-ALANINE UNLABELED (600-43-6) Persistence and degradability Not available. L-ALANINE UNLABELED (56-64-17) Log Pow -2.74 at 20 °C (88 °F) Not available. L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available. L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available. L-SOCRETIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available. L-SOCRETIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available. L-SOCRETIC UNLABELED (56-84-8) Bioaccumulative potential Not available. L-SOCRETIC UNLABELED (56-84-8) Bioaccumulative potential Not available. L-SOCRETIC UNLABELED (56-50-8) Bioaccumulative potential Not available. L-SOCRETIC UNLABELED (56-50-8) Bioaccumulative potential Not available. L-LYSINE:HCL UNLABELED (56-50-8) Bioaccumulative potential Not available. L-LYSINE:HCL UNLABELED (56-86-3) Not available. L-LYSINE:HCL UNLABELED (56-86-3)	L-PHENYLALANINE UNLABELED (63-91-2)	
Persistence and degradability   Not available.	Persistence and degradability	Not available.
L-SERINE UNLABELED (302-84-1) Persistence and degradability Not available. L-THREONINE UNLABELED (72-19-5) Persistence and degradability Not available. L-TRYPTOPHAN UNLABELED (73-22-3) Persistence and degradability Not available. L-TYROSINE UNLABELED (60-18-4) Persistence and degradability Not available. L-VALINE UNLABELED (72-18-4) Persistence and degradability Aerobic - exposure time: 28 d.  SUCROSE UNLABELED (75-75-1) Persistence and degradability Not available.  SOVBEAN OIL UNLABELED (801-22-7) Persistence and degradability Not available.  SOVBEAN OIL UNLABELED (8001-22-7) Persistence and degradability Not available.  SOVBEAN OIL UNLABELED (8001-22-7) Persistence and degradability Not available in water. No (test)data on mobility of the substance available.  SOPEAN OIL UNLABELED (8004-34-6) Persistence and degradability Biodegradable in water. No (test)data on mobility of the substance available.  CELLULOSE UNLABELED (9004-34-6) Persistence and degradability Biodegradable in water.  12.3. Bioaccumulative potential  L-LALANINE UNLABELED (56-41-7) Log Pow 1-2.74 at 20 °C (88 °F) Bioaccumulative potential Not available.  L-ARGININE-HCL UNLABELED (1119-34-2) Bioaccumulative potential Not available.  L-ARGININE-HCL UNLABELED (56-86-0) Log Pow 1-4 at 20 °C (68 °F) Bioaccumulative potential Not available.  L-GUTAMIC ACID UNLABELED (56-86-0) Log Pow 1-1.58 Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Log Pow 1-1.58 Bioaccumulative potential Not available.  L-LEUCINE (5,55-50.3) 99%) (87828-86-2) Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (65-68-3)	L-PROLINE UNLABELED (147-85-3)	
Persistence and degradability L-TRECONNE UNLABELED (72-19-5) Persistence and degradability L-TRYPTOPHAN UNLABELED (73-22-3) Persistence and degradability Not available. L-TYROSINE UNLABELED (60-18-4) Persistence and degradability Not available. L-VALINE UNLABELED (72-18-4) Persistence and degradability Aerobic - exposure time: 28 d.  SUCROSE UNLABELED (72-18-4) Persistence and degradability Not available. SUCROSE UNLABELED (57-50-1) Persistence and degradability Not available. SOYBEAN OIL UNLABELED (800-22-7) Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available. SOYBEAN OIL UNLABELED (800-22-7) Persistence and degradability Not available. SOYBEAN OIL UNLABELED (804-34-6) Persistence and degradability Biodegradable in water.  12.3. Bioaccumulative potential L-ALANINE UNLABELED (66-41-7) Log Pow 1-2-74 at 20 °C (68 °F) Bioaccumulative potential Not available. L-ASPARTIC ACID UNLABELED (66-84-8) Bioaccumulative potential Not available. L-ASPARTIC ACID UNLABELED (66-84-8) Bioaccumulative potential Not available. L-GLUTAMIC ACID UNLABELED (66-84-6) Bioaccumulative potential Not available. L-SULINE UNLABELED (56-80-6) Bioaccumulative potential Not available. L-LYSINE:HCL UNLABELED (65-80-8) Bioaccumulative potential Not available. L-LYSINE:HCL UNLABELED (65-80-8) Bioaccumulative potential Not available. L-LYSINE:HCL UNLABELED (65-80-8) Bioaccumulative potential Not available. L-METHIONINE UNLABELED (65-80-8)	Persistence and degradability	Not available.
L-THREONINE UNLABELED (72-19-5) Persistence and degradability Not available.  L-TRYPTOPHAN UNLABELED (60-18-4) Persistence and degradability Not available.  L-TYROSINE UNLABELED (60-18-4) Persistence and degradability Not available.  L-VALINE UNLABELED (72-18-4) Persistence and degradability Aerobic - exposure time: 28 d.  SUCROSE UNLABELED (57-50-1) Persistence and degradability Not available.  SOYBEAN OIL UNLABELED (5001-22-7) Persistence and degradability Not available.  SOYBEAN OIL UNLABELED (5001-22-7) Persistence and degradability Not available.  SOYBEAN OIL UNLABELED (5001-22-7) Persistence and degradability Not available.  SOYBEAN OIL UNLABELED (5001-22-7) Persistence and degradability Not available.  BOD (% of ThOD) 0.39  CELLULOSE UNLABELED (9004-34-6) Persistence and degradability Biodegradable in water. No (test)data on mobility of the substance available.  BIOGECUMULABELED (56-41-7) Log Pow -2.74 at 20 °C (68 °F) Bioaccumulative potential Not available.  L-ARGININE-HCL UNLABELED (1119-34-2) Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-86-0) Log Pow -4.4 at 20 °C (68 °F) Bioaccumulative potential Not available.  L-GUTAMIC ACID UNLABELED (56-86-0) Log Pow -1.58 Bioaccumulative potential Not available.  L-SOLEUGINE UNLABELED (73-32-5) Log Pow -1.58 Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Log Pow -1.58 Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (75-32-5) Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (56-62-2) Bioaccumulative potential Not available.  L-LEUCINE (5,5-D-3,99%) (87828-86-2) Bioaccumulative potential Not available.  L-LEUCINE (5,5-D-3,99%) (87828-86-2) Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (65-86-3)	L-SERINE UNLABELED (302-84-1)	
Persistence and degradability Not available.  L-TRYPTOPHAN UNLABELED (73-22-3) Persistence and degradability Not available.  L-TROSINE UNLABELED (60-18-4) Persistence and degradability Not available.  L-VALINE UNLABELED (72-18-4) Persistence and degradability Aerobic - exposure time: 28 d.  SUCROSE UNLABELED (75-60-1) Persistence and degradability Not available.  SOYBEAN OIL UNLABELED (8001-22-7) Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available.  SOYBEAN OIL UNLABELED (8001-22-7) Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available.  BOD (% of ThOD) 0.39  CELLULOSE UNLABELED (9004-34-6) Persistence and degradability Biodegradable in water.  12.3. Bioaccumulative potential  L-ALANINE UNLABELED (56-41-7) Log Pow	Persistence and degradability	Not available.
Persistence and degradability Not available.  L-TRYPTOPHAN UNLABELED (73-22-3) Persistence and degradability Not available.  L-TROSINE UNLABELED (60-18-4) Persistence and degradability Not available.  L-VALINE UNLABELED (72-18-4) Persistence and degradability Aerobic - exposure time: 28 d.  SUCROSE UNLABELED (75-60-1) Persistence and degradability Not available.  SOYBEAN OIL UNLABELED (8001-22-7) Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available.  SOYBEAN OIL UNLABELED (8001-22-7) Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available.  BOD (% of ThOD) 0.39  CELLULOSE UNLABELED (9004-34-6) Persistence and degradability Biodegradable in water.  12.3. Bioaccumulative potential  L-ALANINE UNLABELED (56-41-7) Log Pow	L-THREONINE UNLABELED (72-19-5)	
L-TRYPTOPHAN UNLABELED (73-22-3)  Persistence and degradability Not available.  L-TYROSINE UNLABELED (60-18-4)  Persistence and degradability Aerobic - exposure time: 28 d.  SUCROSE UNLABELED (72-18-4)  Persistence and degradability Aerobic - exposure time: 28 d.  SUCROSE UNLABELED (600-12-7)  Persistence and degradability Not available.  SOVBEAN OIL UNLABELED (8001-22-7)  Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available.  BOD (% of ThOD) 0.39  CELLULOSE UNLABELED (9004-34-6)  Persistence and degradability Biodegradable in water.  12.3. Bioaccumulative potential  L-ALANNE UNLABELED (56-41-7)  Log Pow -2.74 at 20 °C (68 °F)  Bioaccumulative potential Not available.  L-ARGININE:HCL UNLABELED (56-88-8)  Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-88-8)  Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-88-6)  Log Pow -4. at 20 °C (68 °F)  Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-88-6)  Bioaccumulative potential Not available.  L-SULTAMIC ACID UNLABELED (56-88-6)  Bioaccumulative potential Not available.  L-SULTAMIC ACID UNLABELED (56-80-6)  Bioaccumulative potential Not available.  L-SULTAMIC ACID UNLABELED (56-80-6)  Bioaccumulative potential Not available.  L-SULTAMIC ACID UNLABELED (56-80-6)  Bioaccumulative potential Not available.  L-SULTAMIC (5,5-5), 9,99% (87828-86-2)  Bioaccumulative potential Not available.  L-LEUCINE (5,5-5), 9,99% (87828-86-2)  Bioaccumulative potential Not available.  L-LEUCINE (5,5-5), 9,99% (87828-86-2)  Bioaccumulative potential Not available.  L-SULTAMIC UNLABELED (65-80-80)  Bioaccumulative potential Not available.  L-SULTAMIC UNLABELED (65-80-80)  Not available.  L-WETHIONINE UNLABELED (65-80-80)  Not available.	. ,	Not available.
Persistence and degradability Not available.  L-TYROSINE UNLABELED (60-18-4) Persistence and degradability Not available.  L-VALINE UNLABELED (72-18-4) Persistence and degradability Aerobic - exposure time: 28 d.  SUCROSE UNLABELED (57-50-1) Persistence and degradability Not available.  SOYBEAN OIL UNLABELED (8001-22-7) Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available.  SOYBEAN OIL UNLABELED (8001-22-7) Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available.  SOYBEAN OIL UNLABELED (9004-34-6) Persistence and degradability Biodegradable in water. No (test)data on mobility of the substance available.  CELLULOSE UNLABELED (9004-34-6) Persistence and degradability Biodegradable in water.  12.3. Bioaccumulative potential  L-ALANINE UNLABELED (56-41-7) Log Pow -2.74 at 20 °C (68 °F) Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0) Log Pow -4.4 at 20 °C (68 °F) Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (56-40-6) Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Log Pow -1.58 Bioaccumulative potential Not available.  L-LEUCINE (5,5-D3, 99%) (87828-86-2) Bioaccumulative potential Not available.  L-LYSINE-HCL UNLABELED (657-26-1) Bioaccumulative potential Not available.  L-LYSINE-HCL UNLABELED (65-68-3)		
L-TYROSINE UNLABELED (60-18-4) Persistence and degradability   Not available.  L-VALINE UNLABELED (77-18-4) Persistence and degradability   Aerobic - exposure time: 28 d.  SUCROSE UNLABELED (57-50-1) Persistence and degradability   Not available.  SOYBEAN OIL UNLABELED (8001-22-7) Persistence and degradability   Not readily biodegradable in water. No (test)data on mobility of the substance available.  SOYBEAN OIL UNLABELED (9004-34-6) Persistence and degradability   Not readily biodegradable in water. No (test)data on mobility of the substance available.  SOYBEAN OIL UNLABELED (9004-34-6) Persistence and degradability   Biodegradable in water. No (test)data on mobility of the substance available.  SOYBEAN OIL UNLABELED (9004-34-6) Persistence and degradability   Biodegradable in water. No (test)data on mobility of the substance available.  SOYBEAN OIL UNLABELED (9004-34-6) Persistence and degradability   Biodegradable in water. No (test)data on mobility of the substance available.  L-ALANINE UNLABELED (56-41-7) Log Pow   -2.74 at 20 °C (68 °F) Bioaccumulative potential   Not available.  L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential   Not available.  L-GUTANIC ACID UNLABELED (56-86-0) Log Pow   -1.58 Bioaccumulative potential   Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Log Pow   -1.58 Bioaccumulative potential   Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2) Bioaccumulative potential   Not available.  L-LYSINE:HCL UNLABELED (657-26-1) Bioaccumulative potential   Not available.  L-LYSINE:HCL UNLABELED (65-68-3)		Not available.
Persistence and degradability Not available.  L-VALINE UNLABELED (72-18-4) Persistence and degradability Aerobic - exposure time: 28 d.  SUCROSE UNLABELED (57-50-1) Persistence and degradability Not available.  SOYBEAN OIL UNLABELED (8001-22-7) Persistence and degradability Not available.  SOYBEAN OIL UNLABELED (9004-34-6) Persistence and degradability Not available in water. No (test)data on mobility of the substance available.  BOD (% of ThOD) 0.39  CELLULOSE UNLABELED (9004-34-6) Persistence and degradability Biodegradable in water.  12.3. Bioaccumulative potential  L-ALANINE UNLABELED (56-41-7) Log Pow 1-2.74 at 20 °C (68 °F)  Bioaccumulative potential Not available.  L-ASGNINE:HCL UNLABELED (1119-34-2) Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8)  Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0) Log Pow < -4 at 20 °C (68 °F)  Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0) Log Pow   -1.58  Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Log Pow   -1.58  Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (65-26-1) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (65-26-88-3)	·	
L-VALINE UNLABELED (72-18-4) Persistence and degradability  SUCROSE UNLABELED (8001-22-7) Persistence and degradability  Not available.  SOYBEAN OIL UNLABELED (8001-22-7) Persistence and degradability  Not readily biodegradable in water. No (test)data on mobility of the substance available.  BOD (% of ThOD)  CELLULOSE UNLABELED (9004-34-6) Persistence and degradability  Biodegradable in water.  12.3. Bioaccumulative potential  L-ALANINE UNLABELED (56-41-7) Log Pow  1-2.74 at 20 °C (68 °F) Bioaccumulative potential  Not available.  L-ASPARTIC ACID UNLABELED (1119-34-2) Bioaccumulative potential  Not available.  L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential  Not available.  L-GUTAMIC ACID UNLABELED (56-86-0) Log Pow  1-4 at 20 °C (68 °F) Bioaccumulative potential  Not available.  L-GUTAMIC ACID UNLABELED (73-32-5) Bioaccumulative potential  Not available.  L-SUTABELED (56-40-6) Bioaccumulative potential  Not available.  L-SUTABELED (56-50-3) Bioaccumulative potential  Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Log Pow  1-1.58 Bioaccumulative potential  Not available.  L-EUCINE (5,5,5-D3, 99%) (87828-86-2) Bioaccumulative potential  Not available.  L-LYSINE:HCL UNLABELED (657-26-1) Bioaccumulative potential  Not available.  L-LYSINE:HCL UNLABELED (657-26-1) Bioaccumulative potential  Not available.  L-METHIONINE UNLABELED (63-68-3)		Not available.
Persistence and degradability Aerobic - exposure time: 28 d.  SUCROSE UNLABELED (57-50-1)  Persistence and degradability Not available.  SOYBEAN OIL UNLABELED (8001-22-7)  Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available.  BOD (% of ThOD) 0.39  CELLULOSE UNLABELED (9004-34-6)  Persistence and degradability Biodegradable in water.  12.3. Bioaccumulative potential  L-ALANINE UNLABELED (56-41-7)  Log Pow -2.74 at 20 °C (68 °F)  Bioaccumulative potential Not available.  L-ARGININE:HCL UNLABELED (1119-34-2)  Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8)  Bioaccumulative potential Not available.  L-GUTAMIC ACID UNLABELED (56-86-0)  Log Pow -4.4 at 20 °C (68 °F)  Bioaccumulative potential Not available.  L-GUTAMIC ACID UNLABELED (56-86-0)  Bioaccumulative potential Not available.  L-SUTAMIC ACID UNLABELED (56-80-0)  Log Pow -1.58  Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5)  Log Pow -1.58  Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5)  Log Pow -1.58  Bioaccumulative potential Not available.  L-LUSINE (5,5,5-3), 99%) (87828-86-2)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1)  Bioaccumulative potential Not available.		
SUCROSE UNLABELED (57-50-1) Persistence and degradability Not available.  SOYBEAN Oil. UNLABELED (8001-22-7) Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available.  BOD (% of ThOD) 0.39  CELLULOSE UNLABELED (9004-34-6) Persistence and degradability Biodegradable in water.  12.3. Bioaccumulative potential L-ALANINE UNLABELED (56-41-7) Log Pow -2.74 at 20 °C (68 °F) Bioaccumulative potential Not available.  L-ARGININE:HCL UNLABELED (1119-34-2) Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available.  L-GUTAMIC ACID UNLABELED (56-86-0) Log Pow -4 at 20 °C (68 °F) Bioaccumulative potential Not available.  L-GUTAMIC ACID UNLABELED (56-86-0) Log Pow -1.58 Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Log Pow -1.58 Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (65-72-61) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (65-72-61) Bioaccumulative potential Not available.	•	Aerobic - exposure time: 28 d.
Persistence and degradability Not available.  SOYBEAN OIL UNLABELED (8001-22-7)  Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available.  BOD (% of ThOD) 0.39  CELLULOSE UNLABELED (9004-34-6)  Persistence and degradability Biodegradable in water.  12.3. Bioaccumulative potential  L-ALANINE UNLABELED (56-41-7)  Log Pow -2.74 at 20 °C (68 °F)  Bioaccumulative potential Not available.  L-ARGININE:HCL UNLABELED (1119-34-2)  Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8)  Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0)  Log Pow -4 at 20 °C (68 °F)  Bioaccumulative potential Not available.  GLYCINE UNLABELED (56-40-6)  Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5)  Log Pow -1.58  Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (65-26-1)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (65-61)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (65-68-3)		
SOYBEAN OIL UNLABELED (8001-22-7) Persistence and degradability Not readily biodegradable in water. No (test)data on mobility of the substance available.  BOD (% of ThOD) 0.39  CELLULOSE UNLABELED (9004-34-6) Persistence and degradability Biodegradable in water.  12.3. Bioaccumulative potential  L-ALANINE UNLABELED (56-41-7) Log Pow 1-2.74 at 20 °C (68 °F) Bioaccumulative potential Not available.  L-ARGININE:HCL UNLABELED (1119-34-2) Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0) Log Pow 4-4 at 20 °C (68 °F) Bioaccumulative potential Not available.  GLYCINE UNLABELED (56-40-6) Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Log Pow 1-5.8 Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-30, 99%) (87828-86-2) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1) Bioaccumulative potential Not available.		Not available
Persistence and degradability  BOD (% of ThOD)  CELLULOSE UNLABELED (9004-34-6) Persistence and degradability  Biodegradable in water.  Bioaccumulative potential  L-ALANINE UNLABELED (56-41-7)  Log Pow  -2.74 at 20 °C (68 °F)  Bioaccumulative potential  Not available.  L-ARGININE:HCL UNLABELED (1119-34-2)  Bioaccumulative potential  Not available.  L-ASPARTIC ACID UNLABELED (56-84-8)  Bioaccumulative potential  Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0)  Log Pow  < -4 at 20 °C (68 °F)  Bioaccumulative potential  Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0)  Log Pow    Company		Teccurations.
BOD (% of ThOD)  CELLULOSE UNLABELED (9004-34-6) Persistence and degradability Biodegradable in water.  12.3. Bioaccumulative potential  L-ALANINE UNLABELED (56-41-7) Log Pow Bioaccumulative potential Not available.  L-ARGININE:HCL UNLABELED (1119-34-2) Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0) Log Pow   < -4 at 20 °C (68 °F) Bioaccumulative potential Not available.  GLYCINE UNLABELED (56-40-6) Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Log Pow   -1.58 Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2) Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (667-26-1) Bioaccumulative potential Not available.	•	Not readily higher adable in water. No (test)data on mobility of the substance available
CELLULOSE UNLABELED (9004-34-6) Persistence and degradability Biodegradable in water.  12.3. Bioaccumulative potential  L-ALANINE UNLABELED (56-41-7) Log Pow -2.74 at 20 °C (68 °F) Bioaccumulative potential Not available.  L-ARGININE:HCL UNLABELED (1119-34-2) Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0) Log Pow < -4 at 20 °C (68 °F) Bioaccumulative potential Not available.  GLYCINE UNLABELED (56-40-6) Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Log Pow :1.58 Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2) Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1) Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (63-68-3)		
Persistence and degradability  12.3. Bioaccumulative potential  L-ALANINE UNLABELED (56-41-7)  Log Pow -2.74 at 20 °C (68 °F)  Bioaccumulative potential Not available.  L-ARGININE:HCL UNLABELED (1119-34-2)  Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8)  Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0)  Log Pow -4-4 at 20 °C (68 °F)  Bioaccumulative potential Not available.  GLYCINE UNLABELED (56-40-6)  Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5)  Log Pow -1.58  Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1)  Bioaccumulative potential Not available.		
12.3. Bioaccumulative potential  L-ALANINE UNLABELED (56-41-7)  Log Pow -2.74 at 20 °C (68 °F)  Bioaccumulative potential Not available.  L-ARGININE:HCL UNLABELED (1119-34-2)  Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8)  Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0)  Log Pow < -4 at 20 °C (68 °F)  Bioaccumulative potential Not available.  GLYCINE UNLABELED (56-40-6)  Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5)  Log Pow -1.58  Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (63-68-3)	` '	Biodegradable in water
L-ALANINE UNLABELED (56-41-7)  Log Pow		
Log Pow -2.74 at 20 °C (68 °F) Bioaccumulative potential Not available.  L-ARGININE:HCL UNLABELED (1119-34-2) Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0) Log Pow < -4 at 20 °C (68 °F) Bioaccumulative potential Not available.  GLYCINE UNLABELED (56-40-6) Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Log Pow		
Bioaccumulative potential Not available.  L-ARGININE:HCL UNLABELED (1119-34-2) Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0) Log Pow < -4 at 20 °C (68 °F) Bioaccumulative potential Not available.  GLYCINE UNLABELED (56-40-6) Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Log Pow -1.58 Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1) Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (63-68-3)		
L-ARGININE:HCL UNLABELED (1119-34-2) Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8) Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0) Log Pow < -4 at 20 °C (68 °F) Bioaccumulative potential Not available.  GLYCINE UNLABELED (56-40-6) Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5) Log Pow		
Bioaccumulative potential Not available.  L-ASPARTIC ACID UNLABELED (56-84-8)  Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0)  Log Pow <	<u>'</u>	Not available.
L-ASPARTIC ACID UNLABELED (56-84-8)  Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0)  Log Pow < -4 at 20 °C (68 °F)  Bioaccumulative potential Not available.  GLYCINE UNLABELED (56-40-6)  Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5)  Log Pow -1.58  Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1)  Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (63-68-3)	, ,	
Bioaccumulative potential Not available.  L-GLUTAMIC ACID UNLABELED (56-86-0)  Log Pow <	·	Not available.
L-GLUTAMIC ACID UNLABELED (56-86-0)  Log Pow		Mar and Salah
Log Pow	·	NOT AVAIIABLE.
Bioaccumulative potential  GLYCINE UNLABELED (56-40-6)  Bioaccumulative potential  Not available.  L-ISOLEUCINE UNLABELED (73-32-5)  Log Pow  -1.58  Bioaccumulative potential  Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Bioaccumulative potential  Not available.  L-LYSINE:HCL UNLABELED (657-26-1)  Bioaccumulative potential  Not available.  L-METHIONINE UNLABELED (63-68-3)	, ,	
GLYCINE UNLABELED (56-40-6)  Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5)  Log Pow -1.58  Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1)  Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (63-68-3)		
Bioaccumulative potential Not available.  L-ISOLEUCINE UNLABELED (73-32-5)  Log Pow -1.58  Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1)  Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (63-68-3)	·	NOT AVAIIADIE.
L-ISOLEUCINE UNLABELED (73-32-5)  Log Pow -1.58  Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1)  Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (63-68-3)		
Log Pow -1.58 Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2) Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1) Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (63-68-3)	·	Not available.
Bioaccumulative potential Not available.  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1)  Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (63-68-3)		
L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1)  Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (63-68-3)		
Bioaccumulative potential Not available.  L-LYSINE:HCL UNLABELED (657-26-1)  Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (63-68-3)	·	Not available.
L-LYSINE:HCL UNLABELED (657-26-1)  Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (63-68-3)		
Bioaccumulative potential Not available.  L-METHIONINE UNLABELED (63-68-3)	·	Not available.
L-METHIONINE UNLABELED (63-68-3)	· ·	
	Bioaccumulative potential	Not available.
Bioaccumulative potential Not available.		

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L DUENVI AL ANINE LINII ADELED (CO.O.4.0)	
L-PHENYLALANINE UNLABELED (63-91-2) Bioaccumulative potential	Not available.
·	Not available.
L-PROLINE UNLABELED (147-85-3)	Net evelleble
Bioaccumulative potential	Not available.
L-SERINE UNLABELED (302-84-1)	Med and Salah
Bioaccumulative potential	Not available.
L-THREONINE UNLABELED (72-19-5)	1
Log Pow	-1.43
Bioaccumulative potential	Not available.
L-TRYPTOPHAN UNLABELED (73-22-3)	
Bioaccumulative potential	Not available.
L-TYROSINE UNLABELED (60-18-4)	0.00 +05.00 (77.05)
Log Pow	-2.26 at 25 °C (77 °F)
Bioaccumulative potential	Not available.
L-VALINE UNLABELED (72-18-4)	0.050 -1.00.00 (00.05)
Log Pow Bioaccumulative potential	-2.259 at 20 °C (68 °F)  Not available.
•	INOL AVAIIABLE.
SUCROSE UNLABELED (57-50-1)	Not available.
Bioaccumulative potential	INUL AVAIIAUIE.
SOYBEAN OIL UNLABELED (8001-22-7)	Not big a source dating
Bioaccumulative potential	Not bioaccumulative.
CELLULOSE UNLABELED (9004-34-6)	Disagoumulation, not applicable
Bioaccumulative potential	Bioaccumulation: not applicable.
12.4. Mobility in soil	
L-ALANINE UNLABELED (56-41-7)	
Ecology - soil	Not available.
L-ARGININE:HCL UNLABELED (1119-34-2)	
Ecology - soil	Not available.
L-ASPARTIC ACID UNLABELED (56-84-8)	
Ecology - soil	Not available.
L CLUTANIC ACID UNI ADELED (50.00.0)	
L-GLUTAMIC ACID UNLABELED (56-86-0)	
Ecology - soil	Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)	Not available.
Ecology - soil	Not available.  Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)	Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil	
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)	Not available.  Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil	Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)	Not available.  Not available.  Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Ecology - soil	Not available.  Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Ecology - soil  L-LYSINE:HCL UNLABELED (657-26-1)  Ecology - soil  L-METHIONINE UNLABELED (63-68-3)	Not available.  Not available.  Not available.  Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Ecology - soil  L-LYSINE:HCL UNLABELED (657-26-1)  Ecology - soil	Not available.  Not available.  Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Ecology - soil  L-LYSINE:HCL UNLABELED (657-26-1)  Ecology - soil  L-METHIONINE UNLABELED (63-68-3)  Ecology - soil  L-PHENYLALANINE UNLABELED (63-91-2)	Not available.  Not available.  Not available.  Not available.  Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Ecology - soil  L-LYSINE:HCL UNLABELED (657-26-1)  Ecology - soil  L-METHIONINE UNLABELED (63-68-3)  Ecology - soil	Not available.  Not available.  Not available.  Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Ecology - soil  L-LYSINE:HCL UNLABELED (657-26-1)  Ecology - soil  L-METHIONINE UNLABELED (63-68-3)  Ecology - soil  L-PHENYLALANINE UNLABELED (63-91-2)	Not available.  Not available.  Not available.  Not available.  Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Ecology - soil  L-LYSINE:HCL UNLABELED (657-26-1)  Ecology - soil  L-METHIONINE UNLABELED (63-68-3)  Ecology - soil  L-PHENYLALANINE UNLABELED (63-91-2)  Ecology - soil	Not available.  Not available.  Not available.  Not available.  Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Ecology - soil  L-LYSINE:HCL UNLABELED (657-26-1)  Ecology - soil  L-METHIONINE UNLABELED (63-68-3)  Ecology - soil  L-PHENYLALANINE UNLABELED (63-91-2)  Ecology - soil  L-PROLINE UNLABELED (147-85-3)	Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Ecology - soil  L-LYSINE:HCL UNLABELED (657-26-1)  Ecology - soil  L-METHIONINE UNLABELED (63-68-3)  Ecology - soil  L-PHENYLALANINE UNLABELED (63-91-2)  Ecology - soil  L-PROLINE UNLABELED (147-85-3)  Ecology - soil	Not available.  Not available.  Not available.  Not available.  Not available.  Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Ecology - soil  L-LYSINE:HCL UNLABELED (657-26-1)  Ecology - soil  L-METHIONINE UNLABELED (63-68-3)  Ecology - soil  L-PHENYLALANINE UNLABELED (63-91-2)  Ecology - soil  L-PROLINE UNLABELED (147-85-3)  Ecology - soil	Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Ecology - soil  L-LYSINE:HCL UNLABELED (657-26-1)  Ecology - soil  L-METHIONINE UNLABELED (63-68-3)  Ecology - soil  L-PHENYLALANINE UNLABELED (63-91-2)  Ecology - soil  L-PROLINE UNLABELED (147-85-3)  Ecology - soil  L-SERINE UNLABELED (302-84-1)  Ecology - soil	Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Ecology - soil  L-LYSINE:HCL UNLABELED (657-26-1)  Ecology - soil  L-METHIONINE UNLABELED (63-68-3)  Ecology - soil  L-PHENYLALANINE UNLABELED (63-91-2)  Ecology - soil  L-PROLINE UNLABELED (147-85-3)  Ecology - soil  L-SERINE UNLABELED (302-84-1)  Ecology - soil	Not available.  Not available.
Ecology - soil  GLYCINE UNLABELED (56-40-6)  Ecology - soil  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil  L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)  Ecology - soil  L-LYSINE:HCL UNLABELED (657-26-1)  Ecology - soil  L-METHIONINE UNLABELED (63-68-3)  Ecology - soil  L-PHENYLALANINE UNLABELED (63-91-2)  Ecology - soil  L-PROLINE UNLABELED (147-85-3)  Ecology - soil  L-SERINE UNLABELED (302-84-1)  Ecology - soil  L-THREONINE UNLABELED (72-19-5)  Ecology - soil	Not available.  Not available.

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L-TYROSINE UNLABELED (60-18-4)		
Ecology - soil	Not available.	
L-VALINE UNLABELED (72-18-4)	L-VALINE UNLABELED (72-18-4)	
Ecology - soil Not available.		
SUCROSE UNLABELED (57-50-1)		
Ecology - soil	Ecology - soil Not available.	
SOYBEAN OIL UNLABELED (8001-22-7)		
Surface tension	0.025 N/m (20 °C)	

#### 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

Mouse Express L-LEUCINE (5,5,5-D3, 99%) MOUSE FEED			
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.		

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I ALANINE LINI ADELED (56 44 7)					
L-ALANINE UNLABELED (56-41-7)	Not subject to usualing requirements of the United Ctates CARA Castics 200				
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 UNLABELED (1119-34-2)					
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-ASPARAGINE UNLABELED (70-47-3)					
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 UNLABELED (56-84-8)					
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-CYSTINE UNLABELED (56-89-3)					
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-GLUTAMIC ACID UNLABELED (56-86-0)					
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.				
GLYCINE UNLABELED (56-40-6)					
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 UNLABELED (73-32-5)					
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 (5,5,5-D3, 99%) (87828-86-2)					
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:HCL UNLABELED (657-26-1)					
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 UNLABELED (63-68-3)					
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 UNLABELED (63-91-2)					
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-PROLINE UNLABELED (147-85-3)					
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.				
	The subject to reporting requirements of the officed oldies only obstitutions.				
L-SERINE UNLABELED (302-84-1)  SARA Section 302 Threshold Planning Oughtity (TPO)	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.				
Or INCH OCCURRED TO - Emission Reporting	1101 Subject to reporting requirements of the Office States SANA Section 313.				

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0, 2012 / Rules and Regulations				
L-THREONINE UNLABELED (72-19-5)				
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-TRYPTOPHAN UNLABELED (73-22-3)				
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 UNLABELED (60-18-4)				
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 UNLABELED (72-18-4)				
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.			
SUCROSE UNLABELED (57-50-1)				
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.			
CORN STARCH UNLABELED (9005-25-8)				
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.			
MALTODEXTRIN UNLABELED (9050-36-6)				
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.			
SOYBEAN OIL UNLABELED (8001-22-7)				
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.			
CELLULOSE UNLABELED (9004-34-6)				
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.			
MINERAL MIX, AIN-93M-MX (94049) UNLABEL	ED			
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.			
CALCIUM PHOSPHATE MONOBASIC MONOH	YDRATE UNLABELED (10031-30-8)			
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.			
VITAMIN MIX, AIN-93-VX (94047) 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.			
CHOLINE BITARTRATE UNLABELED (87-67-2				
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.			
TBHQ UNLABELED (1948-33-0)				
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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# Mouse Express L-LEUCINE (5,5,5-D3, 99%) MOUSE FEED MF-LEUCINE (5,5,5-D3, 99%)

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BLUE FOOD COLOR UNLABELED (3844-45-	BLUE FOOD COLOR UNLABELED (3844-45-9)				
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.				
RED FOOD COLOR 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-HISTIDINE:HCL:H2O UNLABELED (71-00-1)					
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

#### **CANADA**

## Mouse Express L-LEUCINE (5,5,5-D3, 99%) MOUSE FEED

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

Proposition 65 - Carcinogens List  Proposition 65 - Developmental Toxicity  Proposition 65 - Reproductive Toxicity - Reproductive Toxicity - Reproductive Toxicity - Male  No  No  No  No  No  No  No  No  No  N	Total To Guide Togulations				
U.S California - Proposition 65 - Developmental Toxicity  U.S California - Proposition 65 - Reproductive Toxicity - Female  U.S California - Proposition 65 - Reproductive Toxicity - Female  U.S California - Proposition 65 - Reproductive Toxicity - Male  State or local regulations  U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List  L-ALANINE UNLABELED (56-41-7)  U.S California - Proposition 65 - Carcinogens List  U.S California - Proposition 65 - Carcinogens List  Developmental Toxicity  No	Mouse Express L-LEUCINE (5,5,5-D3, 99%) MOUSE FEED()				
Toxicity   U.S California - Proposition 65 - Reproductive   Toxicity - Female	U.S California - Proposition 65 - Carcinogens List		No		
Toxicity - Female   U.S California - Proposition 65 - Reproductive   Toxicity - Male		on 65 - Developmental	No		
Toxicity - Male		on 65 - Reproductive	No		
U.S New Jérsey - Right to Know Hazardous Substance List  L-ALANINE UNLABELED (56-41-7)  U.S California - Proposition 65		on 65 - Reproductive	No		
U.S California - Proposition 65 - Carcinogens List  U.S California - Proposition 65 - Developmental Toxicity  No  No  No  No  No  No  No  No  No  N	State or local regulations				t
Proposition 65 - Carcinogens List  Proposition 65 - Developmental Toxicity  No  No  No  No  No  No  No  No  No  N	L-ALANINE UNLABELED	(56-41-7)			
L-ARGININE:HCL UNLABELED (1119-34-2)  U.S California - Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity -	No significant risk level (NSRL)
U.S California - Proposition 65 - Carcinogens List  U.S California - Proposition 65 - Developmental Toxicity  No  No  No  No  No  No  No  No  No  N	No	No	No	No	
U.S California - Proposition 65 - Carcinogens List  U.S California - Proposition 65 - Developmental Toxicity  No  No  No  No  No  No  No  No  No  N	L-ARGININE:HCL UNLABI	ELED (1119-34-2)			
L-ASPARAGINE UNLABELED (70-47-3)  U.S California - Proposition 65 - Carcinogens List  No	Proposition 65 -	Proposition 65 -	Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity -	No significant risk level (NSRL)
U.S California - Proposition 65 - Carcinogens List  No	No	No	No	No	
Proposition 65 - Carcinogens List  Proposition 65 - Developmental Toxicity  No  No  No  No  No  No  No  No  No  N	L-ASPARAGINE UNLABE	LED (70-47-3)			
L-ASPARTIC ACID UNLABELED (56-84-8)  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)	Proposition 65 -	Proposition 65 -	Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity -	No significant risk level (NSRL)
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	
Proposition 65 - Carcinogens List  Proposition 65 - Developmental Toxicity  Proposition 65 - Reproductive Toxicity - Female  Proposition 65 - Reproductive Toxicity - Male  (NSRL)	L-ASPARTIC ACID UNLA	BELED (56-84-8)			
	U.S California - Proposition 65 -	U.S California - Proposition 65 -	Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity -	No significant risk level (NSRL)
NO NO NO NO	No	No	No	No	

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26, 2012 / Rules and Regulation				
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-GLUTAMIC ACID UNL	ABELED (56-86-0)		-	
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	
<b>GLYCINE UNLABELED</b>	(56-40-6)			
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-ISOLEUCINE UNLAB				
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 (5,5,5-D3, 99	9%) (87828-86-2)			
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	(NSRĽ)
No	No	No	No	
L-LYSINE:HCL UNLABE	ELED (657-26-1)			
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-METHIONINE UNLAB	ELED (63-68-3)			
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-PHENYLALANINE UN				
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-PROLINE UNLABELE	<u>'</u>			
U.S California -	U.S California - Proposition 65 -	U.S California - Proposition 65 -	U.S California - Proposition 65 - Reproductive Toxicity -	No significant risk level (NSRL)
Proposition 65 - Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Male	
•	•			
Carcinogens List	Developmental Toxicity  No	Female	Male	
Carcinogens List	Developmental Toxicity  No	Female	Male	No significant risk level (NSRL)

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26, 2012 / Rules and Regulations				
L-SERINE UNLABELED (3				
No	No	No	No	
L-THREONINE UNLABELE	,	1110 0 17	1110 0111	
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-TRYPTOPHAN UNLABE	LED (73-22-3)			
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-TYROSINE 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-VALINE UNLABELED (7				
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	
SUCROSE UNLABELED (	57-50-1)			
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	
CORN STARCH UNLABEL	ED (9005-25-8)			
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	
MALTODEXTRIN UNLABE				
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	
SOYBEAN OIL UNLABELI				
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	
CELLULOSE UNLABELED	) (9004-34-6)	•		•
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	
	-	·	<u>.</u>	•

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· · · · · · · · · · · · · · · · · · ·	1-MX (94049) 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 -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
CAI CIUM PHOSPHATE	MONOBASIC MONOHYDRAT	F UNI ABELED (10031-30-8)		
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 -	()
Carolinogono List	Developmental Texicity	Female	Male	
No	No	No	No	
VITAMIN MIX, AIN-93-V	Y (04047) LINII ARELED			
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 -	(1.0.1.2)
Cardinogens List	Developmental Toxicity	Female	Male	
No	No	No	No	
	E UNLABELED (87-67-2)			
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	
TBHQ UNLABELED (19	948-33-0)			
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 -	,
3	, , , , , , , , , , , ,	Female	Male	
No	No	No	No	
		110	110	
U.S California -	NLABELED (3844-45-9)	LLC California	II.C. California	No simulficant vials lavel
	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	
RED FOOD COLOR UN	ILABELED			
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 -	(1.10.1.2)
Carolinogoria Liat	Developmental Toxicity	Female	Male	
No	No	No	No	
	IINI AREI ED (74 00 4)		<u> </u>	
L-HISTIDINE:HCL:H2O 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)
				(NSINL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
		1	1	
L-ALANINE UNLABELE	•			
State or local regulation	ns			

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

# L-ARGININE:HCL UNLABELED (1119-34-2)

#### 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

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#### L-ASPARAGINE UNLABELED (70-47-3)

#### State or local regulations

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

#### L-ASPARTIC ACID UNLABELED (56-84-8)

#### State or local regulations

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

#### L-CYSTINE UNLABELED (56-89-3)

#### State or local regulations

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

#### L-GLUTAMIC ACID UNLABELED (56-86-0)

#### State or local regulations

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

#### **GLYCINE UNLABELED (56-40-6)**

#### State or local regulations

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

#### L-ISOLEUCINE UNLABELED (73-32-5)

#### State or local regulations

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

### L-LEUCINE (5,5,5-D3, 99%) (87828-86-2)

#### State or local regulations

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

#### L-LYSINE:HCL UNLABELED (657-26-1)

### State or local regulations

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

#### L-METHIONINE UNLABELED (63-68-3)

### State or local regulations

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

#### L-PHENYLALANINE UNLABELED (63-91-2)

#### State or local regulations

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

#### L-PROLINE UNLABELED (147-85-3)

#### State or local regulations

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

# L-SERINE UNLABELED (302-84-1)

#### State or local regulations

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

# L-THREONINE UNLABELED (72-19-5)

#### 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-TRYPTOPHAN UNLABELED (73-22-3)

#### State or local regulations

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

#### L-TYROSINE UNLABELED (60-18-4)

#### State or local regulations

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

#### L-VALINE UNLABELED (72-18-4)

#### State or local regulations

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

#### SUCROSE UNLABELED (57-50-1)

#### State or local regulations

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

#### **CORN STARCH UNLABELED (9005-25-8)**

## State or local regulations

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

#### **MALTODEXTRIN UNLABELED (9050-36-6)**

#### State or local regulations

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

# SOYBEAN OIL UNLABELED (8001-22-7)

#### State or local regulations

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

# **CELLULOSE UNLABELED (9004-34-6)**

#### State or local regulations

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

### MINERAL MIX, AIN-93M-MX (94049) UNLABELED

#### State or local regulations

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

#### CALCIUM PHOSPHATE MONOBASIC MONOHYDRATE UNLABELED (10031-30-8)

### State or local regulations

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

#### VITAMIN MIX, AIN-93-VX (94047) UNLABELED

### State or local regulations

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

#### **CHOLINE BITARTRATE UNLABELED (87-67-2)**

#### State or local regulations

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

#### **TBHQ UNLABELED (1948-33-0)**

#### State or local regulations

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

#### **TBHQ UNLABELED (1948-33-0)**

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

#### **BLUE FOOD COLOR UNLABELED (3844-45-9)**

#### State or local regulations

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

#### **RED FOOD COLOR 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 UNLABELED (71-00-1)

#### State or local regulations

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

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1	Sensitisation — Skin, Category 1		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
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		
Xi	Irritant		

NFPA health hazard

: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

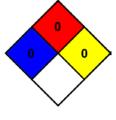
NFPA fire hazard

: 0 - Materials that will not burn under typical dire 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.



#### **HMIS III Rating**

Health : 0 Minimal Hazard - No significant risk to health

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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# Mouse Express UNLABELED MOUSE FEED

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to

Supersedes: 06/02/2013

Version: 4.0

Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 18/08/2016

MF-UNLABELED

Date of issue: 14/03/2012

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

**Product identifier** 

: Mixtures Product form

: Mouse Express UNLABELED MOUSE FEED Product name

: MF-UNLABELED Other means of identification Also applicable to:

MF-UNLABELED-IR UNLABELED IRRADIATED

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

#### Relevant identified uses 1.2.1.

: Professional use Main use category

Industrial/Professional use spec : For professional use only

#### Uses advised against 1.2.2.

No additional information available

#### Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com 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**

## Classification of the substance or mixture

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

Not classified

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

Not classified

#### **GHS-US** classification

Not classified

## Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. **Label elements**

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

No labelling applicable

### **GHS-US** labelling

No labelling applicable

### Other hazards

No additional information available

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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

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

#### 3.1. Substances

Not applicable

# 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
SUCROSE UNLABELED	(CAS No) 57-50-1 (EC No) 200-334-9	35.29	Not classified
CORN STARCH UNLABELED	(CAS No) 9005-25-8 (EC No) 232-679-6 (EC Index No)	15	Not classified
MALTODEXTRIN UNLABELED	(CAS No) 9050-36-6 (EC No) (EC Index No)	15	Not classified
SOYBEAN OIL UNLABELED	(CAS No) 8001-22-7 (EC No) 232-274-4	8	Not classified
L-GLUTAMIC ACID UNLABELED	(CAS No) 56-86-0 (EC No) 200-293-7	4	Not classified
MINERAL MIX, AIN-93M-MX (94049) UNLABELED	(CAS No) (EC No) (EC Index No)	3.5	Not classified
CELLULOSE UNLABELED	(CAS No) 9004-34-6 (EC No) 232-674-9	3	Not classified
GLYCINE UNLABELED	(CAS No) 56-40-6 (EC No) 200-272-2	2.33	Not classified
VITAMIN MIX, AIN-93-VX (94047) UNLABELED	(CAS No) (EC No) (EC Index No)	1.95	Not classified
L-ARGININE:HCL UNLABELED	(CAS No) 1119-34-2 (EC No) 214-275-1	1.21	Xi; R36/38
L-LEUCINE UNLABELED	(CAS No) 61-90-5 (EC No) 200-522-0	1.11	Not classified
L-LYSINE:HCL UNLABELED	(CAS No) 657-26-1 (EC No) 211-518-3	1	Not classified
L-VALINE UNLABELED	(CAS No) 72-18-4 (EC No) 200-773-6	0.82	Not classified
L-THREONINE UNLABELED	(CAS No) 72-19-5 (EC No) 200-774-1	0.82	Not classified
L-ISOLEUCINE UNLABELED	(CAS No) 73-32-5 (EC No) 200-798-2	0.82	Not classified
L-METHIONINE UNLABELED	(CAS No) 63-68-3 (EC No) 200-562-9	0.82	Not classified
CALCIUM PHOSPHATE MONOBASIC MONOHYDRATE UNLABELED	(CAS No) 10031-30-8 (EC No) 231-837-1 (EC Index No)	0.82	Xi; R36/37/38
L-PHENYLALANINE UNLABELED	(CAS No) 63-91-2 (EC No) 200-568-1	0.75	Not classified
L-ASPARAGINE UNLABELED	(CAS No) 70-47-3 (EC No) 200-735-9 (EC Index No)	0.6	Not classified
L-TYROSINE UNLABELED	(CAS No) 60-18-4 (EC No) 200-460-4	0.5	Xi; R36/37/38
L-HISTIDINE:HCL:H2O UNLABELED	(CAS No) 71-00-1 (EC No) 200-745-3	0.45	Not classified
L-ALANINE UNLABELED	(CAS No) 56-41-7 (EC No) 200-273-8	0.35	Not classified
L-ASPARTIC ACID UNLABELED	(CAS No) 56-84-8 (EC No) 200-291-6	0.35	Not classified
L-PROLINE UNLABELED	(CAS No) 147-85-3 (EC No) 205-702-2	0.35	Not classified
L-CYSTINE UNLABELED	(CAS No) 56-89-3 (EC No) 200-296-3	0.35	Not classified
L-SERINE UNLABELED	(CAS No) 302-84-1 (EC No) 206-130-6	0.35	Not classified
CHOLINE BITARTRATE UNLABELED	(CAS No) 87-67-2 (EC No) 201-763-4 (EC Index No)	0.28	Not classified
L-TRYPTOPHAN UNLABELED	(CAS No) 73-22-3 (EC No) 200-795-6	0.18	Not classified
TBHQ UNLABELED	(CAS No) 1948-33-0 (EC No) 217-752-2	0.002	Not classified

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L-LYSINE:HCL UNLABELED

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
SUCROSE UNLABELED	(CAS No) 57-50-1 (EC No) 200-334-9	35.29	Not classified
CORN STARCH UNLABELED	(EC No) 200-334-9 (CAS No) 9005-25-8 (EC No) 232-679-6 (EC Index No)	15	Not classified
MALTODEXTRIN UNLABELED	(EC Index No) 9050-36-6 (EC No) (EC Index No)	15	Not classified
SOYBEAN OIL UNLABELED	(CAS No) 8001-22-7 (EC No) 232-274-4	8	Not classified
L-GLUTAMIC ACID UNLABELED	(CAS No) 56-86-0 (EC No) 200-293-7	4	Not classified
MINERAL MIX, AIN-93M-MX (94049) UNLABELED	(CAS No) (EC No) (EC Index No)	3.5	Not classified
CELLULOSE UNLABELED	(CAS No) 9004-34-6 (EC No) 232-674-9	3	Not classified
GLYCINE UNLABELED	(CAS No) 56-40-6 (EC No) 200-272-2	2.33	Not classified
VITAMIN MIX, AIN-93-VX (94047) UNLABELED	(CAS No) (EC No) (EC Index No)	1.95	Not classified
L-ARGININE:HCL UNLABELED	(CAS No) 1119-34-2 (EC No) 214-275-1	1.21	Skin Irrit. 2, H315 Eye Irrit. 2, H319
L-LEUCINE UNLABELED	(CAS No) 61-90-5 (EC No) 200-522-0	1.11	Not classified
L-LYSINE:HCL UNLABELED	(CAS No) 657-26-1 (EC No) 211-518-3	1	Skin Sens. 1, H317
L-VALINE UNLABELED	(CAS No) 72-18-4 (EC No) 200-773-6	0.82	Not classified
L-THREONINE UNLABELED	(CAS No) 72-19-5 (EC No) 200-774-1	0.82	Not classified
L-ISOLEUCINE UNLABELED	(CAS No) 73-32-5 (EC No) 200-798-2	0.82	Not classified
L-METHIONINE UNLABELED	(CAS No) 63-68-3 (EC No) 200-562-9	0.82	Not classified
CALCIUM PHOSPHATE MONOBASIC MONOHYDRATE UNLABELED	(CAS No) 10031-30-8 (EC No) 231-837-1 (EC Index No)	0.82	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
L-PHENYLALANINE UNLABELED	(CAS No) 63-91-2 (EC No) 200-568-1	0.75	Not classified
L-ASPARAGINE UNLABELED	(CAS No) 70-47-3 (EC No) 200-735-9 (EC Index No)	0.6	Not classified
L-TYROSINE UNLABELED	(CAS No) 60-18-4 (EC No) 200-460-4	0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
L-HISTIDINE:HCL:H2O UNLABELED	(CAS No) 71-00-1 (EC No) 200-745-3	0.45	Not classified
L-ALANINE UNLABELED	(CAS No) 56-41-7 (EC No) 200-273-8	0.35	Not classified
L-ASPARTIC ACID UNLABELED	(CAS No) 56-84-8 (EC No) 200-291-6	0.35	Not classified
L-PROLINE UNLABELED	(CAS No) 147-85-3 (EC No) 205-702-2	0.35	Not classified
L-CYSTINE UNLABELED	(CAS No) 56-89-3 (EC No) 200-296-3	0.35	Not classified
L-SERINE UNLABELED	(CAS No) 302-84-1 (EC No) 206-130-6	0.35	Not classified
CHOLINE BITARTRATE UNLABELED	(CAS No) 87-67-2 (EC No) 201-763-4 (EC Index No)	0.28	Not classified
L-TRYPTOPHAN UNLABELED	(CAS No) 73-22-3 (EC No) 200-795-6	0.18	Not classified
TBHQ UNLABELED	(CAS No) 1948-33-0 (EC No) 217-752-2	0.002	Not classified
Name	Product identifier	%	GHS-US classification
L-GLUTAMIC ACID UNLABELED	(CAS No) 56-86-0	4	Not classified
L-ARGININE:HCL UNLABELED	(CAS No) 1119-34-2	1.21	Skin Irrit. 2, H315
L-LYSINE-HOLLINI ARELED	(CAS No.) 657-26-1	4	Eye Irrit. 2A, H319

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Skin Sens. 1, H317

(CAS No) 657-26-1

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

# **SECTION 4: First aid measures**

#### **Description of first aid measures**

First-aid measures general : Move out of dangerous area. Consult a physician and show this safety data sheet.

First-aid measures after inhalation If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

physician.

Wash with soap and plenty of water. Consult a physician. First-aid measures after skin contact

First-aid measures after eve contact : Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

First-aid measures after ingestion : Give victim large quantities of liquid.

#### Most important symptoms and effects, both acute and delayed

: May be harmful if inhaled. May cause respiratory tract irritation. Symptoms/injuries after inhalation Symptoms/injuries after skin contact : May be harmful if absorbed through skin. May cause skin irritation.

Symptoms/injuries after eye contact : Contact may cause eye irritation. Symptoms/injuries after ingestion : May be harmful if swallowed.

#### Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Fire-fighting measures**

#### **Extinguishing media**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

#### Special hazards arising from the substance or mixture

Reactivity : Not available.

#### **Advice for firefighters**

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

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

#### 6.1.2. For emergency responders

No additional information available

**Emergency procedures** 

# **Environmental precautions**

Prevent entry to sewers and public waters.

#### Methods and material for containment and cleaning up

For containment

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

#### Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### Precautions for safe handling

: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate Additional hazards when processed exhaust ventilation at places where dust is formed. Normal measures for preventive fire

: Handle in accordance with good industrial hygiene and safety practice. Wash hands before Hygiene measures breaks and at the end of workday.

# Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a cool, dry and well-ventilated place.

Storage conditions : Store product at 4°C or lower.

#### Specific end use(s) 7.3

No additional information available

# **SECTION 8: Exposure controls/personal protection**

# **Control parameters**

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SUCROSE UNLABELED (57-	50-1)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³	
SOYBEAN OIL UNLABELED	(8001-22-7)		
Belgium	Limit value (mg/m³)	10 mg/m³ (Huiles végétales (brouillards); Belgium; Time-weighted average exposure limit 8 h)	
CELLULOSE UNLABELED (9	9004-34-6)		
Belgium	Limit value (mg/m³)	10 mg/m³ (Cellulose; Belgium; Time-weighted average exposure limit 8 h)	
France	VME (mg/m³)	10 mg/m³ (Cellulose (fibre de papier); France; Time- weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)	
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (Cellulose; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Cotton dust, raw, untreated; 0.1 mg/m³; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Thoracic fraction)	
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ Cellulose inhalable dust; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Cellulose respirable dust; 4 mg/m³; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)	
United Kingdom	WEL STEL (mg/m³)	20 mg/m³ Cellulose inhalable dust; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)	
CORN STARCH UNLABELED (9005-25-8)			
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ Dermatitis. Not classifiable as a human carcinogen	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³	
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³	

# 8.2. Exposure controls

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.









Materials for protective clothing : Wear suitable protective clothing and gloves. Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous

substance at the work place.

Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

### **SECTION 9: Physical and chemical properties**

	The second periods
Physical state	: Solid
Appearance	: Pellets.
Colour	: Off White.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

Information on basic physical and chemical properties

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Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : No data available Log Pow : No data available Log Kow : No data available : No data available Viscosity, kinematic : No data available Viscosity, dynamic Explosive properties : No data available Oxidising properties : No data available **Explosive limits** : No data available

## 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not available.

#### 10.2. Chemical stability

Six months unopened when stored under recommended conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Not available.

#### 10.5. Incompatible materials

Not available.

## 10.6. Hazardous decomposition products

Not available.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

> 5110 mg/kg male and female		
5000 mg/kg		
5000 mg/kg		
5000.000 mg/kg bodyweight		
5000.000 mg/kg bodyweight		
12400 mg/kg		
12000.000 mg/kg bodyweight		
SUCROSE UNLABELED (57-50-1)		
29700 mg/kg Somnolence, Cyanosis, Diarrhea		
29700.000 mg/kg bodyweight		
L-VALINE UNLABELED (72-18-4)		
> 2000 mg/kg Rat female - (OECD Test Guideline 423)		
5390 mg/kg		
> 5260 mg/m³ (OECD Test Guideline 403)		
L-PROLINE UNLABELED (147-85-3)		
> 5110 mg/kg		
L-HISTIDINE:HCL:H2O UNLABELED (71-00-1)		
15000 mg/kg		
15000.000 mg/kg bodyweight		

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GLYCINE UNLABELED (56-40-6)	
LD50 oral rat	7930 mg/kg
ATE CLP (oral)	7930.000 mg/kg bodyweight
L-TRYPTOPHAN UNLABELED (73-22-3)	
LD50 oral rat	> 16000 mg/kg
L-LEUCINE UNLABELED (61-90-5)	
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-TYROSINE UNLABELED (60-18-4)	
Additional information	LD50 Intraperitoneal - mouse - > 1,450 mg/kg
L-METHIONINE UNLABELED (63-68-3)	
LD50 oral rat	36000 mg/kg Remarks: Behavioral: Change in motor activity (specific assay). Skin and Appendages: Allergic (Multiple organ involvement) Anaphylaxix.
CELLULOSE UNLABELED (9004-34-6)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 6 mg/l/4h (Rat)
CALCIUM PHOSPHATE MONOBASIC MONO	•
LD50 oral rat	17500 mg/kg Remarks: Peripheral Nerve and Sensation: Flaccid paralysis without anesthesia (usually neuromuscular blockage). Behavioral: Somnolence (general depressed activity). Lungs, Thorax, or Respiration: Respiratory stimulation.
L-GLUTAMIC ACID UNLABELED (56-86-0)	
LD50 oral rat	> 5110 mg/kg male and female
LD50 dermal rat	> 2000 mg/kg male and female (OECD Test Guideline 402)
Skin corrosion/irritation	: Not classified
	No data available
Serious eye damage/irritation	: Not classified
	No data available
Respiratory or skin sensitisation	: Not available
	No data available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not classified
Reproductive toxicity	: Not available
STOT-single exposure	: Not classified
	No data available
STOT-repeated exposure	: Not classified
4,	No data available
L-LEUCINE UNLABELED (61-90-5)	
NOAEL (oral, rat, 90 days)	3840 mg/kg bodyweight/day female
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: The chemical, physical, and toxicological properties have not been thoroughly investigated.
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/injuries after eye contact	: Contact may cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
, , ,	•

# **SECTION 12: Ecological information**

12.1. Toxicity
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L-ALANINE UNLABELED (56-41-7)		
EC50 Daphnia 1	> 100 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)	
L-VALINE UNLABELED (72-18-4)		
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 202) - 24 h	

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L-PROLINE UNLABELED (147-85-3)	
EC50 Daphnia 1	> 100 mg/l - Daphnia magna (Water flea) - 48 h
CELLULOSE UNLABELED (9004-34-6)	
LC50 fish 1	> 100 mg/l (LC50)
EC50 Daphnia 1	> 100 mg/l (EC50)
Threshold limit algae 1	> 100 mg/l (EC50)
L-GLUTAMIC ACID UNLABELED (56-86-0)	
LC50 fish 1	> 100 mg/l Cyprinus carpio (Carp) - static test - 96 h
EC50 Daphnia 1	> 100 g/l Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)
EC50 other aquatic organisms 1	> 31 mg/l Pseudokirchneriella subcapitata (green algae) - static test - 72 h
12.2. Persistence and degradability	
Mouse Express UNLABELED MOUSE FEED	
Persistence and degradability	Not available.
L-ALANINE UNLABELED (56-41-7)	
Persistence and degradability	Not available.
·	TVC GVGIIGADIC.
L-ASPARTIC ACID UNLABELED (56-84-8)  Persistence and degradability	Not available.
·	TYOU GYGIIGANG.
L-ARGININE:HCL UNLABELED (1119-34-2)	Not available.
Persistence and degradability	Not available.
SUCROSE UNLABELED (57-50-1)	Mat and Table
Persistence and degradability	Not available.
L-VALINE UNLABELED (72-18-4)	
Persistence and degradability	Aerobic - exposure time: 28 d.
L-PHENYLALANINE UNLABELED (63-91-2)	
Persistence and degradability	Not available.
L-PROLINE UNLABELED (147-85-3)	
Persistence and degradability	Not available.
L-THREONINE UNLABELED (72-19-5)	
Persistence and degradability	Not available.
L-ISOLEUCINE UNLABELED (73-32-5)	
Persistence and degradability	Not available.
GLYCINE UNLABELED (56-40-6)	
Persistence and degradability	Not available.
L-TRYPTOPHAN UNLABELED (73-22-3)	
Persistence and degradability	Not available.
L-LEUCINE UNLABELED (61-90-5)	
Persistence and degradability	Not available.
L-SERINE UNLABELED (302-84-1)	
Persistence and degradability	Not available.
L-TYROSINE UNLABELED (60-18-4)	
Persistence and degradability	Not available.
L-METHIONINE UNLABELED (63-68-3)	
Persistence and degradability	Not available.
SOYBEAN OIL UNLABELED (8001-22-7)	TYOU GYGNIGHTO.
Persistence and degradability	Not readily biodegradable in water. No (test)data on mobility of the substance available.
BOD (% of ThOD)	Not readily biodegradable in water. No (test)data on mobility of the substance available.  0.39
	0.00
CELLULOSE UNLABELED (9004-34-6)	Riodogradable in water
Persistence and degradability	Biodegradable in water.
L-LYSINE:HCL UNLABELED (657-26-1)	Not evollable
Persistence and degradability	Not available.
L-GLUTAMIC ACID UNLABELED (56-86-0)	
Persistence and degradability	Aerobic - exposure time: 28 d.
Biodegradation	97 % Readily biodegradable

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42.2 Biogrammulating naturalist	
12.3. Bioaccumulative potential	
Mouse Express UNLABELED MOUSE FEED	Mot accellebia
Bioaccumulative potential	Not available.
L-ALANINE UNLABELED (56-41-7)	
Log Pow	-2.74 at 20 °C (68 °F)
Bioaccumulative potential	Not available.
L-ASPARTIC ACID UNLABELED (56-84-8)	
Bioaccumulative potential	Not available.
L-ARGININE:HCL UNLABELED (1119-34-2)	
Bioaccumulative potential	Not available.
SUCROSE UNLABELED (57-50-1)	
Bioaccumulative potential	Not available.
L-VALINE UNLABELED (72-18-4)	
Log Pow	-2.259 at 20 °C (68 °F)
Bioaccumulative potential	Not available.
L-PHENYLALANINE UNLABELED (63-91-2)	
Bioaccumulative potential	Not available.
L-PROLINE UNLABELED (147-85-3)	
Bioaccumulative potential	Not available.
L-THREONINE UNLABELED (72-19-5)	
Log Pow	-1.43
Bioaccumulative potential	Not available.
L-ISOLEUCINE UNLABELED (73-32-5)	
Log Pow	-1.58
Bioaccumulative potential	Not available.
GLYCINE UNLABELED (56-40-6)	
Bioaccumulative potential	Not available.
L-TRYPTOPHAN UNLABELED (73-22-3)	
Bioaccumulative potential	Not available.
L-LEUCINE UNLABELED (61-90-5)	
Bioaccumulative potential	Not available.
L-SERINE UNLABELED (302-84-1)	THE CANADIDATE OF THE CANADIDA
Bioaccumulative potential	Not available.
·	INOT AVAILABLE.
L-TYROSINE UNLABELED (60-18-4)	0.00 + 05.90 /77.95)
Log Pow Bioaccumulative potential	-2.26 at 25 °C (77 °F)  Not available.
<u>'</u>	Not available.
L-METHIONINE UNLABELED (63-68-3)	Mot accellable
Bioaccumulative potential	Not available.
SOYBEAN OIL UNLABELED (8001-22-7)	The state of the s
Bioaccumulative potential	Not bioaccumulative.
CELLULOSE UNLABELED (9004-34-6)	
Bioaccumulative potential	Bioaccumulation: not applicable.
L-LYSINE:HCL UNLABELED (657-26-1)	
Bioaccumulative potential	Not available.
L-GLUTAMIC ACID UNLABELED (56-86-0)	
Log Pow	< -4 at 20 °C (68 °F)
Bioaccumulative potential	Not available.
12.4. Mobility in soil	
Mouse Express UNLABELED MOUSE FEED	
Ecology - soil	Not available.
L-ALANINE UNLABELED (56-41-7)	
Ecology - soil	Not available.
L-ASPARTIC ACID UNLABELED (56-84-8)	
Ecology - soil	Not available.
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Ecology - soil Not available.  SUCROSE UNLABELED (57-50-1)  Ecology - soil Not available.  L-VALINE UNLABELED (72-18-4)  Ecology - soil Not available.  L-PHENYLALANINE UNLABELED (63-91-2)  Ecology - soil Not available.  L-PROLINE UNLABELED (147-85-3)  Ecology - soil Not available.  L-THREONINE UNLABELED (72-19-5)  Ecology - soil Not available.  L-THREONINE UNLABELED (73-32-5)  Ecology - soil Not available.  L-SOLEUCINE UNLABELED (66-40-6)  Ecology - soil Not available.  L-TRYPOPHAN UNLABELED (73-22-3)  Ecology - soil Not available.  L-TRYPOPHAN UNLABELED (61-90-5)  Ecology - soil Not available.  L-TRYPOPHAN UNLABELED (60-18-4)  Ecology - soil Not available.  L-TYROSINE UNLABELED (60-18-4)  Ecology - soil Not available.  L-TYROSINE UNLABELED (60-68-3)  Ecology - soil Not available.	,,		
SUCROSE UNLABELED (57-50-1)  Ecology - soil Not available.  L-VALINE UNLABELED (72-18-4)  Ecology - soil Not available.  L-PHENYLALANINE UNLABELED (63-91-2)  Ecology - soil Not available.  L-PROLINE UNLABELED (147-85-3)  Ecology - soil Not available.  L-THREONINE UNLABELED (72-19-5)  Ecology - soil Not available.  L-ISOLEUCINE UNLABELED (73-32-5)  Ecology - soil Not available.  GLYCINE UNLABELED (56-40-6)  Ecology - soil Not available.  L-TRYPTOPHAN UNLABELED (73-22-3)  Ecology - soil Not available.  L-TERYPTOPHAN UNLABELED (61-90-5)  Ecology - soil Not available.  L-LEUCINE UNLABELED (61-90-5)  Ecology - soil Not available.  L-SERINE UNLABELED (302-84-1)  Ecology - soil Not available.  L-TYROSINE UNLABELED (60-18-4)  Ecology - soil Not available.  L-TYROSINE UNLABELED (60-18-4)  Ecology - soil Not available.  L-TYROSINE UNLABELED (60-88-3)  Ecology - soil Not available.	L-ARGININE:HCL UNLABELED (1119-34-2)		
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Ecology - soil Not available.  L-METHIONINE UNLABELED (63-68-3)  Ecology - soil Not available.	Ecology - soil	Not available.	
L-METHIONINE UNLABELED (63-68-3)  Ecology - soil Not available.	L-TYROSINE UNLABELED (60-18-4)		
Ecology - soil Not available.	Ecology - soil	Not available.	
**	L-METHIONINE UNLABELED (63-68-3)		
SOYBEAN OIL UNLABELED (8001-22-7)	Ecology - soil	Not available.	
	SOYBEAN OIL UNLABELED (8001-22-7)		
Surface tension 0.025 N/m (20 °C)	Surface tension	0.025 N/m (20 °C)	
L-LYSINE:HCL UNLABELED (657-26-1)	L-LYSINE:HCL UNLABELED (657-26-1)		
Ecology - soil Not available.	Ecology - soil	Not available.	
L-GLUTAMIC ACID UNLABELED (56-86-0)	L-GLUTAMIC ACID UNLABELED (56-86-0)		
Ecology - soil Not available.	Ecology - soil	Not available.	
2.5. Results of PBT and vPvB assessment	12.5. Results of PBT and vPvB assessment		

No additional information available

# 12.6. Other adverse effects

Other adverse effects : Not 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.

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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

Special transport precautions : Not dangerous goods.

#### **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 dangerous goods.

#### 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-ARGININE:HCL UNLABELED (1119-34-2)	
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-LYSINE:HCL UNLABELED (657-26-1)	
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-GLUTAMIC ACID UNLABELED (56-86-0)	
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

#### **CANADA**

## Mouse Express UNLABELED MOUSE FEED

Not listed on the Canadian DSL (Domestic Substances List)

# 15.2.1. National regulations

No additional information available

# 15.3. US State regulations

Mouse Express UNLABELED MOUSE FEED()	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
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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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-ARGININE:HCL UNLAB	ELED (1119-34-2)			
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-LYSINE:HCL UNLABEL	ED (657-26-1)			
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-GLUTAMIC ACID UNLA	BELED (56-86-0)			
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 UNLABELED (1119-34-2)

#### State or local regulations

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

#### L-LYSINE:HCL UNLABELED (657-26-1)

#### 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 UNLABELED (56-86-0)

#### 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-statements:

Serious eye damage/eye irritation, Category 2
Skin corrosion/irritation, Category 2
Sensitisation — Skin, Category 1
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May cause respiratory irritation
Irritating to eyes, respiratory system and skin
Irritating to eyes and skin
Irritant

NFPA health hazard

: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

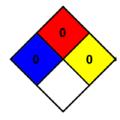
NFPA fire hazard

: 0 - Materials that will not burn under typical dire 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.



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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

#### **HMIS III Rating**

Health : 0 Minimal Hazard - No significant risk to health

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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