



Mouse Express (15N, 98%) MOUSE FEED PREPARED WITH SPIRULINA (U-15N, 98%+)

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: 14/03/2012

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Version: 3.0

MF-SPIRULINA-N

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

1.1. Product identifier

Product form : Mixtures
Product name : Mouse Express (15N, 98%) MOUSE FEED PREPARED WITH SPIRULINA (U-15N, 98%+)
Product code : MF-SPIRULINA-N

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

1.2.1. Relevant identified uses

Main use category : Professional use
Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.
50 Frontage Road
Andover, MA 01810
USA

USA: 1-800-322-1174 Int: 1-978-749-8000
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

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]

No labelling applicable

GHS-US labelling

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
SPIRULINA WHOLE CELLS (LYOPHILIZED POWDER) (U-15N, 98%+)	(CAS No) NA	28.5	Not classified
CORN STARCH UNLABELED	(CAS No) 9005-25-8 (EC No) 232-679-6 (EC Index No)	21.44	Not classified
SUCROSE UNLABELED	(CAS No) 57-50-1 (EC No) 200-334-9	18	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	8.1	Not classified
CELLULOSE UNLABELED	(CAS No) 9004-34-6 (EC No) 232-674-9	4.6	Not classified
CALCIUM CARBONATE UNLABELED	(CAS No) 471-34-1 (EC No) 207-439-9	1.9	Not classified
MANGANESE (II) CARBONATE UNLABELED	(CAS No) 598-62-9 (EC No) 209-942-9 (EC Index No)	0.8	Not classified
CALCIUM PHOSPHATE DIBASIC UNLABELED	(CAS No) 7757-93-9 (EC No) 231-826-1 (EC Index No)	0.7	Not classified
TRACE MINERAL MIX, AIN-93G (06095)	(CAS No) (EC No) (EC Index No)	0.5	Not classified
VITAMIN MIX, W/O CHOLINE, A, D, E (83171)	(CAS No) (EC No) (EC Index No)	0.5	Not classified
MAGNESIUM CARBONATE UNLABELED	(CAS No) 23389-33-5 (EC No) (EC Index No)	0.33	Not classified
CHOLINE BITARTRATE UNLABELED	(CAS No) 87-67-2 (EC No) 201-763-4 (EC Index No)	0.3	Not classified
CUPRIC CARBONATE UNLABELED	(CAS No) 1184-64-1 (EC No) 214-671-1 (EC Index No)	0.12	Xn; R22 N; R50/53
CALCIUM-44 CHLORIDE (44Ca)	(CAS No) 10043-52-4 (Unlabeled) (EC No) 233-140-8 (Unlabeled) (EC Index No) 017-013-00-2 (Unlabeled)	0.1	Xn; R22 Xi; R36
VITAMIN E (ALPHA-TOCOPHEROL) UNLABELED	(CAS No) 59-02-9	0.02	Not classified
RETINYL PALMITATE (VITAMIN A PALMITATE) UNLABELED	(CAS No) 79-81-2 (EC No) 201-228-5 (Unlabeled)	0.001	Repr.Cat.2; R60 Repr.Cat.2; R61 R53
VITAMIN D3 (CHOLECALCIFEROL) UNLABELED	(CAS No) 67-97-0 (EC No) 200-673-2 (EC Index No) 603-180-00-4	0.0003	T+; R26/27/28

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
SPIRULINA WHOLE CELLS (LYOPHILIZED POWDER) (U-15N, 98%+)	(CAS No) NA	28.5	Not classified
CORN STARCH UNLABELED	(CAS No) 9005-25-8 (EC No) 232-679-6 (EC Index No)	21.44	Not classified
SUCROSE UNLABELED	(CAS No) 57-50-1 (EC No) 200-334-9	18	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	8.1	Not classified
CELLULOSE UNLABELED	(CAS No) 9004-34-6 (EC No) 232-674-9	4.6	Not classified
CALCIUM CARBONATE UNLABELED	(CAS No) 471-34-1 (EC No) 207-439-9	1.9	Not classified
MANGANESE (II) CARBONATE UNLABELED	(CAS No) 598-62-9 (EC No) 209-942-9 (EC Index No)	0.8	Not classified
CALCIUM PHOSPHATE DIBASIC UNLABELED	(CAS No) 7757-93-9 (EC No) 231-826-1 (EC Index No)	0.7	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
TRACE MINERAL MIX, AIN-93G (06095)	(CAS No) (EC No) (EC Index No)	0.5	Not classified
VITAMIN MIX, W/O CHOLINE, A, D, E (83171)	(CAS No) (EC No) (EC Index No)	0.5	Not classified
MAGNESIUM CARBONATE UNLABELED	(CAS No) 23389-33-5 (EC No) (EC Index No)	0.33	Not classified
CHOLINE BITARTRATE UNLABELED	(CAS No) 87-67-2 (EC No) 201-763-4 (EC Index No)	0.3	Not classified
CUPRIC CARBONATE UNLABELED	(CAS No) 1184-64-1 (EC No) 214-671-1 (EC Index No)	0.12	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CALCIUM-44 CHLORIDE (44Ca)	(CAS No) 10043-52-4 (Unlabeled) (EC No) 233-140-8 (Unlabeled) (EC Index No) 017-013-00-2 (Unlabeled)	0.1	Eye Irrit. 2, H319
VITAMIN E (ALPHA-TOCOPHEROL) UNLABELED	(CAS No) 59-02-9	0.02	Not classified
RETINYL PALMITATE (VITAMIN A PALMITATE) UNLABELED	(CAS No) 79-81-2 (EC No) 201-228-5 (Unlabeled)	0.001	Repr. 1B, H360 Aquatic Chronic 4, H413
VITAMIN D3 (CHOLECALCIFEROL) UNLABELED	(CAS No) 67-97-0 (EC No) 200-673-2 (EC Index No) 603-180-00-4	0.0003	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:dust,mist), H330 STOT RE 1, H372

Name	Product identifier	%	GHS-US classification
SPIRULINA WHOLE CELLS (LYOPHILIZED POWDER) (U-15N, 98%+)	(CAS No) NA	28.5	Not classified
CORN STARCH UNLABELED	(CAS No) 9005-25-8	21.44	Not classified
SUCROSE UNLABELED	(CAS No) 57-50-1	18	Not classified
MALTODEXTRIN UNLABELED	(CAS No) 9050-36-6	15	Not classified
SOYBEAN OIL UNLABELED	(CAS No) 8001-22-7	8.1	Not classified
CELLULOSE UNLABELED	(CAS No) 9004-34-6	4.6	Not classified
CALCIUM CARBONATE UNLABELED	(CAS No) 471-34-1	1.9	Not classified
MANGANESE (II) CARBONATE UNLABELED	(CAS No) 598-62-9	0.8	Not classified
CALCIUM PHOSPHATE DIBASIC UNLABELED	(CAS No) 7757-93-9	0.7	Not classified
TRACE MINERAL MIX, AIN-93G (06095)	(CAS No)	0.5	Not classified
VITAMIN MIX, W/O CHOLINE, A, D, E (83171)	(CAS No)	0.5	Not classified
MAGNESIUM CARBONATE UNLABELED	(CAS No) 23389-33-5	0.33	Not classified
CHOLINE BITARTRATE UNLABELED	(CAS No) 87-67-2	0.3	Not classified
CUPRIC CARBONATE UNLABELED	(CAS No) 1184-64-1	0.12	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CALCIUM-44 CHLORIDE (44Ca)	(CAS No) 10043-52-4 (Unlabeled)	0.1	Eye Irrit. 2, H319
VITAMIN E (ALPHA-TOCOPHEROL) UNLABELED	(CAS No) 59-02-9	0.02	Not classified
RETINYL PALMITATE (VITAMIN A PALMITATE) UNLABELED	(CAS No) 79-81-2	0.001	Repr. 1B, H360 Aquatic Chronic 4, H413
VITAMIN D3 (CHOLECALCIFEROL) UNLABELED	(CAS No) 67-97-0	0.0003	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 STOT RE 1, H372

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.

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4.2. 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.

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

No additional information available

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

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

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.

6.3. Methods and material for containment and cleaning up

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

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

SUCROSE UNLABELED (57-50-1)		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
CORN STARCH UNLABELED (9005-25-8)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ Dermatitis. Not classifiable as a human carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³
CELLULOSE UNLABELED (9004-34-6)		
Belgium	Limit value (mg/m ³)	10 mg/m ³ (Cellulose; Belgium; Time-weighted average exposure limit 8 h)

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CELLULOSE UNLABELED (9004-34-6)		
France	VME (mg/m ³)	10 mg/m ³ (Cellulose (fibre de papier); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (Cellulose; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Cotton dust, raw, untreated; 0.1 mg/m ³ ; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Thoracic fraction)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ Cellulose inhalable dust; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Cellulose respirable dust; 4 mg/m ³ ; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	20 mg/m ³ Cellulose inhalable dust; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
SOYBEAN OIL UNLABELED (8001-22-7)		
Belgium	Limit value (mg/m ³)	10 mg/m ³ (Huiles végétales (brouillards); Belgium; Time-weighted average exposure limit 8 h)
CALCIUM-44 CHLORIDE (44Ca) (10043-52-4 (Unlabeled))		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³ Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
MAGNESIUM CARBONATE UNLABELED (23389-33-5)		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³ 10 mg/m ³ Basis: USA. NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Magnesite is a naturally-occurring form of magnesium carbonate.
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ 5 mg/m ³ Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
MANGANESE (II) CARBONATE UNLABELED (598-62-9)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
USA OSHA	Remark (OSHA)	Ceiling for manganese compounds as Mn
CUPRIC CARBONATE UNLABELED (1184-64-1)		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	1 mg/m ³ Basis: USA. NIOSH Recommended Exposure Limits
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1 Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107)
CALCIUM CARBONATE UNLABELED (471-34-1)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ Basis: ACGIH Threshold Limit Values (TLV)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	10 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Occurs in nature as limestone, chalk, marble, dolomite, aragonite, calcite & oyster shells.
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
USA OSHA	OSHA PEL (STEL) (mg/m ³)	10 mg/m ³ Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	5 mg/m ³ Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants; Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107)

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8.2. Exposure controls

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.

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

Physical state : Solid

Appearance : Pellets/tablets.

Colour : Green.

Odour : No data available

Odour threshold : No data available

pH : 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

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

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

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

No additional information 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

No additional information available

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10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

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)

CALCIUM-44 CHLORIDE (44Ca) (10043-52-4 (Unlabeled))

LD50 oral rat	2301 mg/kg
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VITAMIN D3 (CHOLECALCIFEROL) UNLABELED (67-97-0)

LD50 oral rat	35 - 47 mg/kg
ATE CLP (oral)	35.000 mg/kg bodyweight
ATE CLP (dermal)	300.000 mg/kg bodyweight
ATE CLP (dust,mist)	0.050 mg/l/4h

CALCIUM PHOSPHATE DIBASIC UNLABELED (7757-93-9)

LD50 oral rat	7940 mg/kg female
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CUPRIC CARBONATE UNLABELED (1184-64-1)

ATE CLP (oral)	500.000 mg/kg bodyweight
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CALCIUM CARBONATE UNLABELED (471-34-1)

LD50 oral rat	6450 mg/kg
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RETINYL PALMITATE (VITAMIN A PALMITATE) UNLABELED (79-81-2)

LD50 oral rat	> 2000 mg/kg
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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

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.

SECTION 12: Ecological information

12.1. Toxicity

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)

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CALCIUM-44 CHLORIDE (44Ca) (10043-52-4 (Unlabeled))	
LC50 fish 1	10650 mg/l - Lepomis macrochirus - 96 h
EC50 Daphnia 1	2400 mg/l - Daphnia magna (Water flea) - 48 h Method: OECD Test Guideline 202
RETINYL PALMITATE (VITAMIN A PALMITATE) UNLABELED (79-81-2)	
LC50 fish 1	> 10000 mg/l Leuciscus idus (Golden orfe) - 96 h
EC50 Daphnia 1	> 100 mg/l Daphnia magna (Water flea) - 48 h
EC50 other aquatic organisms 1	152.94 mg/l Desmodesmus subspicatus (green algae) - 72 h

12.2. Persistence and degradability

SPIRULINA WHOLE CELLS (LYOPHILIZED POWDER) (U-15N, 98%+) (NA)	
Persistence and degradability	Not available.
SUCROSE UNLABELED (57-50-1)	
Persistence and degradability	Not available.
CELLULOSE UNLABELED (9004-34-6)	
Persistence and degradability	Biodegradable in water.
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
VITAMIN D3 (CHOLECALCIFEROL) UNLABELED (67-97-0)	
Persistence and degradability	Not available.
VITAMIN E (ALPHA-TOCOPHEROL) UNLABELED (59-02-9)	
Persistence and degradability	Not available.
RETINYL PALMITATE (VITAMIN A PALMITATE) UNLABELED (79-81-2)	
Persistence and degradability	Biodegradability aerobic - Exposure time 28 d.
Biodegradation	50 - 60 % Partially biodegradable

12.3. Bioaccumulative potential

SPIRULINA WHOLE CELLS (LYOPHILIZED POWDER) (U-15N, 98%+) (NA)	
Bioaccumulative potential	Not available.
SUCROSE UNLABELED (57-50-1)	
Bioaccumulative potential	Not available.
CELLULOSE UNLABELED (9004-34-6)	
Bioaccumulative potential	Bioaccumulation: not applicable.
SOYBEAN OIL UNLABELED (8001-22-7)	
Bioaccumulative potential	Not bioaccumulative.
VITAMIN D3 (CHOLECALCIFEROL) UNLABELED (67-97-0)	
Bioaccumulative potential	Not available.
VITAMIN E (ALPHA-TOCOPHEROL) UNLABELED (59-02-9)	
Bioaccumulative potential	Not available.
RETINYL PALMITATE (VITAMIN A PALMITATE) UNLABELED (79-81-2)	
Log Pow	10.3
Bioaccumulative potential	Not available.

12.4. Mobility in soil

SPIRULINA WHOLE CELLS (LYOPHILIZED POWDER) (U-15N, 98%+) (NA)	
Ecology - soil	Not available.
SUCROSE UNLABELED (57-50-1)	
Ecology - soil	Not available.
SOYBEAN OIL UNLABELED (8001-22-7)	
Surface tension	0.025 N/m (20 °C)
VITAMIN D3 (CHOLECALCIFEROL) UNLABELED (67-97-0)	
Ecology - soil	Not available.
VITAMIN E (ALPHA-TOCOPHEROL) UNLABELED (59-02-9)	
Ecology - soil	Not available.

Mouse Express (15N, 98%) MOUSE FEED PREPARED WITH SPIRULINA (U-15N, 98%+)

MF-SPIRULINA-N

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RETINYL PALMITATE (VITAMIN A PALMITATE) UNLABELED (79-81-2)

Ecology - soil	Not available.
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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.

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

DOT RQ : Mouse Express AHA MOUSE FEED

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 (15N, 98%) MOUSE FEED PREPARED WITH SPIRULINA (U-15N, 98%+)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
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SUCROSE UNLABELED (57-50-1)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
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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.
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Mouse Express (15N, 98%) MOUSE FEED PREPARED WITH SPIRULINA (U-15N, 98%+)

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CORN STARCH UNLABELED (9005-25-8)	
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.
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.
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.
CALCIUM-44 CHLORIDE (44Ca) (10043-52-4 (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.
VITAMIN D3 (CHOLECALCIFEROL) UNLABELED (67-97-0)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
CALCIUM PHOSPHATE DIBASIC UNLABELED (7757-93-9)	
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.
MAGNESIUM CARBONATE UNLABELED (23389-33-5)	
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.
MANGANESE (II) CARBONATE UNLABELED (598-62-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
CUPRIC CARBONATE UNLABELED (1184-64-1)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	
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.
TRACE MINERAL MIX, AIN-93G (06095)	
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.
VITAMIN MIX, W/O CHOLINE, A, D, E (83171)	
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 CARBONATE UNLABELED (471-34-1)	
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.
RETINYL PALMITATE (VITAMIN A PALMITATE) UNLABELED (79-81-2)	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard

Mouse Express (15N, 98%) MOUSE FEED PREPARED WITH SPIRULINA (U-15N, 98%+)

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15.2. International regulations

CANADA

Mouse Express (15N, 98%) MOUSE FEED PREPARED WITH SPIRULINA (U-15N, 98%+)

Listed on the Canadian DSL (Domestic Substances List)

MANGANESE (II) CARBONATE UNLABELED (598-62-9)

Listed on the Canadian DSL (Domestic Substances List)

CUPRIC CARBONATE UNLABELED (1184-64-1)

15.2.1. National regulations

CUPRIC CARBONATE UNLABELED (1184-64-1)

15.3. US State regulations

Mouse Express (15N, 98%) MOUSE FEED PREPARED WITH SPIRULINA (U-15N, 98%+)(I)

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

SPIRULINA WHOLE CELLS (LYOPHILIZED POWDER) (U-15N, 98%+) (NA)

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 UNLABELED (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 UNLABELED (9050-36-6)

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	

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	

SOYBEAN OIL UNLABELED (8001-22-7)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity -	U.S. - California - Proposition 65 - Reproductive Toxicity -	No significant risk level (NSRL)

Mouse Express (15N, 98%) MOUSE FEED PREPARED WITH SPIRULINA (U-15N, 98%+)

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SOYBEAN OIL UNLABELED (8001-22-7)				
		Female	Male	
No	No	No	No	
CALCIUM-44 CHLORIDE (44Ca) (10043-52-4 (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	
CHOLINE BITARTRATE UNLABELED (87-67-2)				
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	
VITAMIN D3 (CHOLECALCIFEROL) UNLABELED (67-97-0)				
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	
CALCIUM PHOSPHATE DIBASIC UNLABELED (7757-93-9)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
MAGNESIUM CARBONATE UNLABELED (23389-33-5)				
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	
MANGANESE (II) CARBONATE UNLABELED (598-62-9)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
CUPRIC CARBONATE UNLABELED (1184-64-1)				
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	
TRACE MINERAL MIX, AIN-93G (06095)				
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	
VITAMIN MIX, W/O CHOLINE, A, D, E (83171)				
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)

Mouse Express (15N, 98%) MOUSE FEED PREPARED WITH SPIRULINA (U-15N, 98%+)

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VITAMIN MIX, W/O CHOLINE, A, D, E (83171)				
No	No	No	No	
CALCIUM CARBONATE UNLABELED (471-34-1)				
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	
VITAMIN E (ALPHA-TOCOPHEROL) UNLABELED (59-02-9)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
RETINYL PALMITATE (VITAMIN A PALMITATE) UNLABELED (79-81-2)				
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	
SPIRULINA WHOLE CELLS (LYOPHILIZED POWDER) (U-15N, 98%+) (NA)				
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				
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				
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				
CALCIUM-44 CHLORIDE (44Ca) (10043-52-4 (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				

Mouse Express (15N, 98%) MOUSE FEED PREPARED WITH SPIRULINA (U-15N, 98%+)

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VITAMIN D3 (CHOLECALCIFEROL) UNLABELED (67-97-0)
State or local regulations
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
CALCIUM PHOSPHATE DIBASIC UNLABELED (7757-93-9)
State or local regulations
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
MAGNESIUM CARBONATE UNLABELED (23389-33-5)
State or local regulations
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
MANGANESE (II) CARBONATE UNLABELED (598-62-9)
State or local regulations
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
CUPRIC CARBONATE UNLABELED (1184-64-1)
State or local regulations
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
TRACE MINERAL MIX, AIN-93G (06095)
State or local regulations
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
VITAMIN MIX, W/O CHOLINE, A, D, E (83171)
State or local regulations
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
CALCIUM CARBONATE UNLABELED (471-34-1)
State or local regulations
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
VITAMIN E (ALPHA-TOCOPHEROL) UNLABELED (59-02-9)
State or local regulations
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
RETINYL PALMITATE (VITAMIN A PALMITATE) UNLABELED (79-81-2)
State or local regulations
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information

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

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

Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1

Mouse Express (15N, 98%) MOUSE FEED PREPARED WITH SPIRULINA (U-15N, 98%+)

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Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H319	Causes serious eye irritation
H330	Fatal if inhaled
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life
R22	Harmful if swallowed
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
R36	Irritating to eyes
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R53	May cause long-term adverse effects in the aquatic environment
R60	May impair fertility
R61	May cause harm to the unborn child
N	Dangerous for the environment
T+	Very toxic
Xi	Irritant
Xn	Harmful

NFPA health hazard

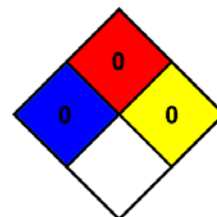
: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

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