



# Material Safety Data Sheet

Catalog Number: 16220  
Revision date: 26-Apr-2006

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 16220

Product name: 1X MINIMUM ESSENTIAL MEDIUM EAGLE (MODIFIED) WITH EARLE'S SALTS WITHOUT ARGININE, L-GLUTAMINE

**Supplier:**

MP Biomedicals, LLC  
29525 Fountain Parkway  
Solon, OH 44139  
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
WATER	7732-18-5	90 - 100%	None	None
SODIUM CHLORIDE	7647-14-5	0.1 - 1.5%	None	None
SODIUM BICARBONATE	144-55-8	0.1 - 1.5%	None	None
D-(+)-DEXTROSE ANHYDROUS	50-99-7	0.1 - 1.5%	None	None
POTASSIUM CHLORIDE	7447-40-7	< 0.1%	None	None
CALCIUM CHLORIDE DIHYDRATE	10035-04-8	< 0.1%	None	None
SODIUM PHOSPHATE MONOBASIC MONOHYDRATE	10049-21-5	< 0.1%	None	None
MAGNESIUM SULFATE ANHYDROUS	7487-88-9	< 0.1%	None	None
L-LYSINE MONOHYDROCHLORIDE	657-27-2	< 0.1%	None	None
L-LEUCINE	61-90-5	< 0.1%	None	None
L-ISOLEUCINE	73-32-5	< 0.1%	None	None
L-THREONINE ALLO FREE	72-19-5	< 0.1%	None	None
L-VALINE	72-18-4	< 0.1%	None	None
L-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE	5934-29-2	< 0.1%	None	None
L-TYROSINE	60-18-4	< 0.1%	None	None
L-PHENYLALANINE	63-91-2	< 0.1%	None	None
L-CYSTINE	56-89-3	< 0.1%	None	None
PHENOL RED SODIUM SALT	34487-61-1	< 0.1%	None	None
L-METHIONINE	63-68-3	< 0.1%	None	None
L-TRYPTOPHAN	73-22-3	< 0.1%	None	None
D-myo-INOSITOL	87-89-8	< 0.1%	None	None
NIACINAMIDE	98-92-0	< 0.1%	None	None
THIAMINE HYDROCHLORIDE	67-03-8	< 0.1%	None	None
CHOLINE CHLORIDE	67-48-1	< 0.1%	None	None
PYRIDOXAL HYDROCHLORIDE	65-22-5	< 0.1%	None	None
D-PANTOTHENIC ACID CALCIUM SALT	137-08-6	< 0.1%	None	None
FOLIC ACID	59-30-3	< 0.1%	None	None
RIBOFLAVIN	83-88-5	< 0.1%	None	None

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** May cause skin irritation and/or dermatitis

**Principle routes of exposure:** Skin

**Inhalation:** May cause irritation of respiratory tract

**Ingestion:** May be harmful if swallowed.

**Skin contact:** May cause allergic skin reaction

**Eye contact:** Avoid contact with eyes

**Statements of hazard** MAY CAUSE ALLERGIC SKIN REACTION.

**Statement of Spill or Leak - ANSI Label** Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

### 4. FIRST AID MEASURES

**General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Inhalation:** Move to fresh air. Call a physician immediately.

**Skin contact:** Rinse immediately with plenty of water and seek medical advice

**Ingestion:** Do not induce vomiting without medical advice.

**Eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Protection of first-aiders:** No information available

**Medical conditions aggravated by exposure:** None known

### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:**

Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam

**Specific hazards:**

Burning produces irritant fumes.

**Unusual hazards:**

None known

**Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Specific methods:**

Water mist may be used to cool closed containers.

**Flash point:**

Not determined

**Autoignition temperature:**

Not determined

**NFPA rating:**

NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Use personal protective equipment.

**Environmental precautions:**

Prevent product from entering drains.

**Methods for cleaning up:**

Sweep up and shovel into suitable containers for disposal.

### 7. HANDLING AND STORAGE

**Storage:**

<b>Handling:</b>	Use only in area provided with appropriate exhaust ventilation.
<b>Safe handling advice:</b>	Wear personal protective equipment.
<b>Incompatible products:</b>	Oxidising and spontaneously flammable products

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

**Hand protection:** Pvc or other plastic material gloves

**Skin and body protection:** Usual safety precautions while handling the product will provide adequate protection against this potential effect.

**Eye protection:** Safety glasses with side-shields

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Formula:</b>	Not applicable
<b>Melting point/range:</b>	No data available at this time.
<b>Boiling point/range:</b>	No Data available at this time.
<b>Density:</b>	No data available
<b>Vapor pressure:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Vapor density:</b>	No data available
<b>Solubility (in water):</b>	No data available
<b>Flash point:</b>	Not determined
<b>Autoignition temperature:</b>	Not determined

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Polymerization:</b>	None under normal processing.
<b>Hazardous decomposition products:</b>	Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.
<b>Materials to avoid:</b>	Strong oxidising agents
<b>Conditions to avoid:</b>	Exposure to air or moisture over prolonged periods.

## 11. TOXICOLOGICAL INFORMATION

**Product Information**  
**Acute toxicity**

Components	RTECS Number:	Selected LD50s and LC50s
WATER	ZC0110000	Oral LD50 Rat = > 90 ml/kg
SODIUM CHLORIDE	VZ4725000	Inhalation LC50 Rat : >42 gm/m <sup>3</sup> /1H
		Oral LD50 Rat : 3 gm/kg
		Oral LD50 Mouse : 4 gm/kg
		Dermal LD50 Rabbit : >10 gm/kg
SODIUM BICARBONATE	VZ0950000	Oral LD50 Rat : 4220 mg/kg
		Oral LD50 Mouse : 3360 mg/kg
D-(+)-DEXTROSE ANHYDROUS	LZ6600000	Oral LD50 Rat : 25800 mg/kg
POTASSIUM CHLORIDE	TS8050000	Oral LD50 Rat : 2600 mg/kg
		Oral LD50 Mouse : 1500 mg/kg
CALCIUM CHLORIDE DIHYDRATE	EV9810000	Not Determined
SODIUM PHOSPHATE MONOBASIC MONOHYDRATE	Not Available	Not Determined
MAGNESIUM SULFATE ANHYDROUS	OM4500000	Not Determined
L-LYSINE MONOHYDROCHLORIDE	OL5650000	Oral LD50 Rat : 10 gm/kg
L-LEUCINE	OH2850000	Not Determined
L-ISOLEUCINE	NR4705000	Not Determined
L-THREONINE ALLO FREE	XO8590000	Not Determined
L-VALINE	YV9361000	Not Determined
L-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE	MS3119000	Not Determined
L-TYROSINE	YP2275600	Not Determined
L-PHENYLALANINE	AY7535000	Not Determined
L-CYSTINE	HA2690000	Not Determined
PHENOL RED SODIUM SALT	Not Available	Not Determined
L-METHIONINE	PD0457000	Oral LD50 Rat : 36 gm/kg
L-TRYPTOPHAN	YN6130000	Oral LD50 Rat : >16 gm/kg
D-myo-INOSITOL	NM7520800	Oral LD50 Mouse : 10 gm/kg
NIACINAMIDE	QS3675000	Oral LD50 Rat : 3500 mg/kg
		Oral LD50 Mouse : 2500 mg/kg
THIAMINE HYDROCHLORIDE	XI7350000	Oral LD50 Rat : 3710 mg/kg
		Oral LD50 Mouse : 8224 mg/kg
CHOLINE CHLORIDE	KH2975000	Oral LD50 Rat : 3400 mg/kg
		Oral LD50 Mouse : 3900 mg/kg
PYRIDOXAL HYDROCHLORIDE	UV1225000	Oral LD50 Rat : 2150 mg/kg
		Oral LD50 Mouse : 1800 mg/kg
D-PANTOTHENIC ACID CALCIUM SALT	RU4375000	Oral LD50 Rat : >10 gm/kg
		Oral LD50 Mouse : 10 gm/kg
FOLIC ACID	LP5425000	Oral LD50 Mouse : 10 gm/kg
RIBOFLAVIN	VJ1400000	Oral LD50 Rat : >10 gm/kg

<b>Chronic toxicity:</b>	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
<b>Local effects:</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Specific effects:</b>	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
<b>Primary irritation:</b>	No data is available on the product itself.
<b>Carcinogenic effects:</b>	No data is available on the product itself.
<b>Mutagenic effects:</b>	No data is available on the product itself.
<b>Reproductive toxicity:</b>	No data is available on the product itself.

## 12. ECOLOGICAL INFORMATION

**Mobility:**

No data available

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MEDIUM EAGLE (MODIFIED) WITH EARLE'S  
SALTS WITHOUT ARGININE, L-GLUTAMINE

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**Bioaccumulation:**  
**Ecotoxicity effects:**  
**Aquatic toxicity:**

No data available  
 No data available  
 May cause long-term adverse effects in the aquatic environment.

Components	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants	United Kingdom - The Red List:
WATER	Not Listed	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed	Not Listed
SODIUM BICARBONATE	Not Listed	Not Listed	Not Listed
D-(+)-DEXTROSE ANHYDROUS	Not Listed	Not Listed	Not Listed
POTASSIUM CHLORIDE	Not Listed	Not Listed	Not Listed
CALCIUM CHLORIDE DIHYDRATE	Not Listed	Not Listed	Not Listed
SODIUM PHOSPHATE MONOBASIC MONOHYDRATE	Not Listed	Not Listed	Not Listed
MAGNESIUM SULFATE ANHYDROUS	Not Listed	Not Listed	Not Listed
L-LYSINE MONOHYDROCHLORIDE	Not Listed	Not Listed	Not Listed
L-LEUCINE	Not Listed	Not Listed	Not Listed
L-ISOLEUCINE	Not Listed	Not Listed	Not Listed
L-THREONINE ALLO FREE	Not Listed	Not Listed	Not Listed
L-VALINE	Not Listed	Not Listed	Not Listed
L-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE	Not Listed	Not Listed	Not Listed
L-TYROSINE	Not Listed	Not Listed	Not Listed
L-PHENYLALANINE	Not Listed	Not Listed	Not Listed
L-CYSTINE	Not Listed	Not Listed	Not Listed
PHENOL RED SODIUM SALT	Not Listed	Not Listed	Not Listed
L-METHIONINE	Not Listed	Not Listed	Not Listed
L-TRYPTOPHAN	Not Listed	Not Listed	Not Listed
D-myo-INOSITOL	Not Listed	Not Listed	Not Listed
NIACINAMIDE	Not Listed	Not Listed	Not Listed
THIAMINE HYDROCHLORIDE	Not Listed	Not Listed	Not Listed
CHOLINE CHLORIDE	Not Listed	Not Listed	Not Listed
PYRIDOXAL HYDROCHLORIDE	Not Listed	Not Listed	Not Listed
D-PANTOTHENIC ACID CALCIUM SALT	Not Listed	Not Listed	Not Listed
FOLIC ACID	Not Listed	Not Listed	Not Listed
RIBOFLAVIN	Not Listed	Not Listed	Not Listed

Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
WATER	Not Listed	Not Listed	Not Listed
SODIUM CHLORIDE	1; Fussnote 14	Not Listed	Not Listed
SODIUM BICARBONATE	1; Fussnote 14	Not Listed	Not Listed
D-(+)-DEXTROSE ANHYDROUS	Not Listed	Not Listed	Not Listed
POTASSIUM CHLORIDE	1	Not Listed	Not Listed
CALCIUM CHLORIDE DIHYDRATE	Not Listed	Not Listed	Not Listed
SODIUM PHOSPHATE MONOBASIC MONOHYDRATE	Not Listed	Not Listed	Not Listed
MAGNESIUM SULFATE ANHYDROUS	1; Fussnote 14	Not Listed	Not Listed
L-LYSINE MONOHYDROCHLORIDE	Not Listed	Not Listed	Not Listed
L-LEUCINE	Not Listed	Not Listed	Not Listed
L-ISOLEUCINE	Not Listed	Not Listed	Not Listed
L-THREONINE ALLO FREE	Not Listed	Not Listed	Not Listed
L-VALINE	Not Listed	Not Listed	Not Listed
L-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE	Not Listed	Not Listed	Not Listed
L-TYROSINE	Not Listed	Not Listed	Not Listed
L-PHENYLALANINE	Not Listed	Not Listed	Not Listed
L-CYSTINE	Not Listed	Not Listed	Not Listed
PHENOL RED SODIUM SALT	Not Listed	Not Listed	Not Listed
L-METHIONINE	Not Listed	Not Listed	Not Listed
L-TRYPTOPHAN	Not Listed	Not Listed	Not Listed
D-myo-INOSITOL	Not Listed	Not Listed	Not Listed
NIACINAMIDE	Not Listed	Not Listed	Not Listed
THIAMINE HYDROCHLORIDE	Not Listed	Not Listed	Not Listed
CHOLINE CHLORIDE	1	Not Listed	Not Listed
PYRIDOXAL HYDROCHLORIDE	Not Listed	Not Listed	Not Listed
D-PANTOTHENIC ACID CALCIUM SALT	1; Fussnote 14	Not Listed	Not Listed
FOLIC ACID	1	Not Listed	Not Listed
RIBOFLAVIN	Not Listed	Not Listed	Not Listed

Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
WATER	Not Listed	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed	Not Listed
SODIUM BICARBONATE	Not Listed	Not Listed	Not Listed
D-(+)-DEXTROSE ANHYDROUS	Not Listed	Not Listed	Not Listed
POTASSIUM CHLORIDE	Not Listed	Not Listed	Not Listed
CALCIUM CHLORIDE DIHYDRATE	Not Listed	Not Listed	Not Listed
SODIUM PHOSPHATE MONOBASIC MONOHYDRATE	Not Listed	Not Listed	Not Listed
MAGNESIUM SULFATE ANHYDROUS	Not Listed	Not Listed	Not Listed
L-LYSINE MONOHYDROCHLORIDE	Not Listed	Not Listed	Not Listed
L-LEUCINE	Not Listed	Not Listed	Not Listed
L-ISOLEUCINE	Not Listed	Not Listed	Not Listed
L-THREONINE ALLO FREE	Not Listed	Not Listed	Not Listed
L-VALINE	Not Listed	Not Listed	Not Listed
L-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE	Not Listed	Not Listed	Not Listed
L-TYROSINE	Not Listed	Not Listed	Not Listed
L-PHENYLALANINE	Not Listed	Not Listed	Not Listed
L-CYSTINE	Not Listed	Not Listed	Not Listed
PHENOL RED SODIUM SALT	Not Listed	Not Listed	Not Listed
L-METHIONINE	Not Listed	Not Listed	Not Listed
L-TRYPTOPHAN	Not Listed	Not Listed	Not Listed
D-myo-INOSITOL	Not Listed	Not Listed	Not Listed
NIACINAMIDE	Not Listed	Not Listed	Not Listed
THIAMINE HYDROCHLORIDE	Not Listed	Not Listed	Not Listed
CHOLINE CHLORIDE	Not Listed	Not Listed	Not Listed
PYRIDOXAL HYDROCHLORIDE	Not Listed	Not Listed	Not Listed
D-PANTOTHENIC ACID CALCIUM SALT	Not Listed	Not Listed	Not Listed
FOLIC ACID	Not Listed	Not Listed	Not Listed
RIBOFLAVIN	Not Listed	Not Listed	Not Listed

Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
WATER	Not Listed	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed	Not Listed
SODIUM BICARBONATE	Not Listed	Not Listed	Not Listed
D-(+)-DEXTROSE ANHYDROUS	Not Listed	indicator 1; Not sponsored	Not Listed
POTASSIUM CHLORIDE	Not Listed	Not Listed	Not Listed
CALCIUM CHLORIDE DIHYDRATE	Not Listed	Not Listed	Not Listed
SODIUM PHOSPHATE MONOBASIC MONOHYDRATE	Not Listed	Not Listed	Not Listed
MAGNESIUM SULFATE ANHYDROUS	Not Listed	Not Listed	Not Listed
L-LYSINE MONOHYDROCHLORIDE	Not Listed	indicator 0; Not sponsored	Not Listed
L-LEUCINE	Not Listed	Not Listed	Not Listed
L-ISOLEUCINE	Not Listed	Not Listed	Not Listed
L-THREONINE ALLO FREE	Not Listed	Not Listed	Not Listed
L-VALINE	Not Listed	Not Listed	Not Listed
L-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE	Not Listed	Not Listed	Not Listed
L-TYROSINE	Not Listed	Not Listed	Not Listed
L-PHENYLALANINE	Not Listed	Not Listed	Not Listed
L-CYSTINE	Not Listed	Not Listed	Not Listed
PHENOL RED SODIUM SALT	Not Listed	Not Listed	Not Listed
L-METHIONINE	Not Listed	Not Listed	Not Listed
L-TRYPTOPHAN	Not Listed	Not Listed	Not Listed
D-myo-INOSITOL	Not Listed	Not Listed	Not Listed
NIACINAMIDE	Not Listed	indicator 2,4; ICCA sponsored	Not Listed
THIAMINE HYDROCHLORIDE	Not Listed	Not Listed	Not Listed
CHOLINE CHLORIDE	Not Listed	indicator 4; ICCA sponsored	Not Listed
PYRIDOXAL HYDROCHLORIDE	Not Listed	Not Listed	Not Listed
D-PANTOTHENIC ACID CALCIUM SALT	Not Listed	Not Listed	Not Listed
FOLIC ACID	Not Listed	Not Listed	Not Listed
RIBOFLAVIN	Not Listed	Not Listed	Not Listed

Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants
WATER	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed
SODIUM BICARBONATE	Not Listed	Not Listed
D-(+)-DEXTROSE ANHYDROUS	Not Listed	Not Listed
POTASSIUM CHLORIDE	Not Listed	Not Listed
CALCIUM CHLORIDE DIHYDRATE	Not Listed	Not Listed
SODIUM PHOSPHATE MONOBASIC MONOHYDRATE	Not Listed	Not Listed
MAGNESIUM SULFATE ANHYDROUS	Not Listed	Not Listed
L-LYSINE MONOHYDROCHLORIDE	Not Listed	Not Listed
L-LEUCINE	Not Listed	Not Listed
L-ISOLEUCINE	Not Listed	Not Listed
L-THREONINE ALLO FREE	Not Listed	Not Listed
L-VALINE	Not Listed	Not Listed
L-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE	Not Listed	Not Listed
L-TYROSINE	Not Listed	Not Listed
L-PHENYLALANINE	Not Listed	Not Listed
L-CYSTINE	Not Listed	Not Listed
PHENOL RED SODIUM SALT	Not Listed	Not Listed
L-METHIONINE	Not Listed	Not Listed
L-TRYPTOPHAN	Not Listed	Not Listed
D-myo-INOSITOL	Not Listed	Not Listed
NIACINAMIDE	Not Listed	Not Listed
THIAMINE HYDROCHLORIDE	Not Listed	Not Listed
CHOLINE CHLORIDE	Not Listed	Not Listed
PYRIDOXAL HYDROCHLORIDE	Not Listed	Not Listed
D-PANTOTHENIC ACID CALCIUM SALT	Not Listed	Not Listed
FOLIC ACID	Not Listed	Not Listed
RIBOFLAVIN	Not Listed	Not Listed

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:**

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

**Contaminated packaging:**

Do not re-use empty containers

### 14. TRANSPORT INFORMATION

**UN/Id No:**

Not regulated

**DOT:**

**Proper shipping name:**

Not Regulated

Components	U.S. DOT - Appendix A Table 1 - Reportable Quantities
WATER	Not Listed
SODIUM CHLORIDE	Not Listed
SODIUM BICARBONATE	Not Listed
D-(+)-DEXTROSE ANHYDROUS	Not Listed
POTASSIUM CHLORIDE	Not Listed
CALCIUM CHLORIDE DIHYDRATE	Not Listed
SODIUM PHOSPHATE MONOBASIC MONOHYDRATE	Not Listed
MAGNESIUM SULFATE ANHYDROUS	Not Listed
L-LYSINE MONOHYDROCHLORIDE	Not Listed
L-LEUCINE	Not Listed
L-ISOLEUCINE	Not Listed
L-THREONINE ALLO FREE	Not Listed
L-VALINE	Not Listed
L-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE	Not Listed
L-TYROSINE	Not Listed
L-PHENYLALANINE	Not Listed
L-CYSTINE	Not Listed
PHENOL RED SODIUM SALT	Not Listed
L-METHIONINE	Not Listed
L-TRYPTOPHAN	Not Listed
D-myo-INOSITOL	Not Listed
NIACINAMIDE	Not Listed
THIAMINE HYDROCHLORIDE	Not Listed
CHOLINE CHLORIDE	Not Listed
PYRIDOXAL HYDROCHLORIDE	Not Listed
D-PANTOTHENIC ACID CALCIUM SALT	Not Listed
FOLIC ACID	Not Listed
RIBOFLAVIN	Not Listed

**TDG (Canada):****WHMIS hazard class:**

Non-controlled

**IMDG/IMO****IMDG - Hazard Classifications**

Not Applicable

Components	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants
WATER	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed
SODIUM BICARBONATE	Not Listed	Not Listed
D-(+)-DEXTROSE ANHYDROUS	Not Listed	Not Listed
POTASSIUM CHLORIDE	Not Listed	Not Listed
CALCIUM CHLORIDE DIHYDRATE	Not Listed	Not Listed
SODIUM PHOSPHATE MONOBASIC MONOHYDRATE	Not Listed	Not Listed
MAGNESIUM SULFATE ANHYDROUS	Not Listed	Not Listed
L-LYSINE MONOHYDROCHLORIDE	Not Listed	Not Listed
L-LEUCINE	Not Listed	Not Listed
L-ISOLEUCINE	Not Listed	Not Listed
L-THREONINE ALLO FREE	Not Listed	Not Listed
L-VALINE	Not Listed	Not Listed
L-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE	Not Listed	Not Listed
L-TYROSINE	Not Listed	Not Listed
L-PHENYLALANINE	Not Listed	Not Listed
L-CYSTINE	Not Listed	Not Listed
PHENOL RED SODIUM SALT	Not Listed	Not Listed
L-METHIONINE	Not Listed	Not Listed
L-TRYPTOPHAN	Not Listed	Not Listed
D-myo-INOSITOL	Not Listed	Not Listed
NIACINAMIDE	Not Listed	Not Listed
THIAMINE HYDROCHLORIDE	Not Listed	Not Listed
CHOLINE CHLORIDE	Not Listed	Not Listed
PYRIDOXAL HYDROCHLORIDE	Not Listed	Not Listed
D-PANTOTHENIC ACID CALCIUM SALT	Not Listed	Not Listed
FOLIC ACID	Not Listed	Not Listed
RIBOFLAVIN	Not Listed	Not Listed

**IMO-labels:****15. REGULATORY INFORMATION****International Inventories****Components**

WATER

**Inventory - United States TSCA - Sect. 8(b)**

Present

**Canada DSL Inventory List -**

Present

**Australia (AICS):**

Present

**Inventory - China:**

Present

**EU EINECS List -**

231-791-2; H2O

**Korean KECL:**

KE-35400

**Philippines PICCS:**

Present

**Components**

SODIUM CHLORIDE

**Inventory - United States TSCA - Sect. 8(b)**

Present

**Canada DSL Inventory List -**

Present

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Product name: 1X MINIMUM ESSENTIAL  
MEDIUM EAGLE (MODIFIED) WITH EARLE'S  
SALTS WITHOUT ARGININE, L-GLUTAMINE

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<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	231-598-3; CINa
<b>Inventory - Japan:</b>	1-236
<b>Korean KECL:</b>	KE-31387
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
SODIUM BICARBONATE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	205-633-8; CH2O3.Na
<b>Inventory - Japan:</b>	1-164; 1-310
<b>Korean KECL:</b>	KE-31360
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
D-(+)-DEXTROSE ANHYDROUS	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	200-075-1; C6H12O6
<b>Inventory - Japan:</b>	8-46
<b>Korean KECL:</b>	KE-17727
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
POTASSIUM CHLORIDE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	231-211-8; ClK
<b>Inventory - Japan:</b>	1-228
<b>Korean KECL:</b>	KE-29086
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
CALCIUM CHLORIDE DIHYDRATE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Not Listed
<b>Canada DSL Inventory List -</b>	Not Listed
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>Inventory - Japan:</b>	1-176
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
SODIUM PHOSPHATE MONOBASIC MONOHYDRATE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Not Listed
<b>Canada DSL Inventory List -</b>	Not Listed
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
MAGNESIUM SULFATE ANHYDROUS	

<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	231-104-6; Mg
<b>Inventory - Japan:</b>	1-467
<b>Korean KECL:</b>	KE-22673
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
L-LYSINE MONOHYDROCHLORIDE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	211-519-9; C6H14N2O2.CIH
<b>Inventory - Japan:</b>	1-215; 9-1633
<b>Korean KECL:</b>	KE-22666
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
L-LEUCINE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	200-522-0; C6H13NO2
<b>Inventory - Japan:</b>	9-1632
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
L-ISOLEUCINE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	200-798-2; C6H13NO2
<b>Inventory - Japan:</b>	9-1560
<b>Korean KECL:</b>	KE-01488
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
L-THREONINE ALLO FREE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	200-774-1; C4H9NO3
<b>Inventory - Japan:</b>	9-1584
<b>Korean KECL:</b>	KE-01392
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
L-VALINE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present

<b>EU EINECS List -</b>	200-773-6; C5H11NO2
<b>Inventory - Japan:</b>	9-1604
<b>Korean KECL:</b>	KE-01453
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
L-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Not Listed
<b>Canada DSL Inventory List -</b>	Not Listed
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
L-TYROSINE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	200-460-4; C9H11NO3
<b>Inventory - Japan:</b>	9-1596
<b>Korean KECL:</b>	KE-01396
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
L-PHENYLALANINE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	200-568-1; C9H11NO2
<b>Inventory - Japan:</b>	9-1283
<b>Korean KECL:</b>	KE-01557
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
L-CYSTINE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	200-296-3; C6H12N2O4S2
<b>Inventory - Japan:</b>	2-1468; 9-1587
<b>Korean KECL:</b>	KE-12725
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
PHENOL RED SODIUM SALT	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	252-057-8; C19H14O5S.Na
<b>Korean KECL:</b>	KE-02749
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
L-METHIONINE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present

<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	200-562-9; C5H11NO2S
<b>Inventory - Japan:</b>	2-1254
<b>Korean KECL:</b>	KE-01485
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
L-TRYPTOPHAN	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	200-795-6; C11H12N2O2
<b>Inventory - Japan:</b>	9-869
<b>Korean KECL:</b>	KE-01428
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
D-myo-INOSITOL	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	201-781-2; C6H12O6
<b>Inventory - Japan:</b>	3-3265; 8-520
<b>Korean KECL:</b>	KE-21013
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
NIACINAMIDE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Not Listed
<b>Australia (AICS):</b>	Present
<b>EU EINECS List -</b>	202-713-4; C6H6N2O
<b>Inventory - Japan:</b>	5-736
<b>Korean KECL:</b>	KE-29935
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
THIAMINE HYDROCHLORIDE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	200-641-8; C12H17N4OS.CIH.CI
<b>Inventory - Japan:</b>	1-215; 9-811
<b>Korean KECL:</b>	KE-01482
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
CHOLINE CHLORIDE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	200-655-4; C5H14NO.CI
<b>Inventory - Japan:</b>	2-341; 9-1994

<b>Korean KECL:</b>	KE-20909
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
PYRIDOXAL HYDROCHLORIDE	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Not Listed
<b>Canada NDSL Inventory List -</b>	C8H9NO3.CIH
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	200-602-5; C8H9NO3.CIH
<b>Inventory - Japan:</b>	9-1040
<b>Components</b>	
D-PANTOTHENIC ACID CALCIUM SALT	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	205-278-9; C9H17NO5.1/2Ca
<b>Inventory - Japan:</b>	2-2739
<b>Korean KECL:</b>	KE-10821
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
FOLIC ACID	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	200-419-0; C19H19N7O6
<b>Korean KECL:</b>	KE-01305
<b>Philippines PICCS:</b>	Present
<b>Components</b>	
RIBOFLAVIN	
<b>Inventory - United States TSCA - Sect. 8(b)</b>	Present
<b>Canada DSL Inventory List -</b>	Present
<b>Australia (AICS):</b>	Present
<b>Inventory - China:</b>	Present
<b>EU EINECS List -</b>	201-507-1; C17H20N4O6
<b>Inventory - Japan:</b>	9-2282
<b>Korean KECL:</b>	KE-11845
<b>Philippines PICCS:</b>	Present

**U.S. regulations:**

Components	California Proposition 65	Massachusetts Right to Know List:	New Jersey Right to Know List:	Pennsylvania Right to Know List:
WATER	Not Listed	Not Listed	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
SODIUM BICARBONATE	Not Listed	Not Listed	Not Listed	Not Listed
D-(+)-DEXTROSE ANHYDROUS	Not Listed	Not Listed	Not Listed	Not Listed
POTASSIUM CHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
CALCIUM CHLORIDE DIHYDRATE	Not Listed	Not Listed	Not Listed	Not Listed
SODIUM PHOSPHATE MONOBASIC MONOHYDRATE	Not Listed	Not Listed	Not Listed	Not Listed
MAGNESIUM SULFATE ANHYDROUS	Not Listed	[present]	sn 1136	[present]
L-LYSINE	Not Listed	Not Listed	Not Listed	Not Listed
MONOHYDROCHLORIDE				
L-LEUCINE	Not Listed	Not Listed	Not Listed	Not Listed
L-ISOLEUCINE	Not Listed	Not Listed	Not Listed	Not Listed
L-THREONINE ALLO FREE	Not Listed	Not Listed	Not Listed	Not Listed
L-VALINE	Not Listed	Not Listed	Not Listed	Not Listed
L-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE	Not Listed	Not Listed	Not Listed	Not Listed
L-TYROSINE	Not Listed	Not Listed	Not Listed	Not Listed
L-PHENYLALANINE	Not Listed	Not Listed	Not Listed	Not Listed
L-CYSTINE	Not Listed	Not Listed	Not Listed	Not Listed
PHENOL RED SODIUM SALT	Not Listed	Not Listed	Not Listed	Not Listed
L-METHIONINE	Not Listed	Not Listed	Not Listed	Not Listed
L-TRYPTOPHAN	Not Listed	Not Listed	Not Listed	Not Listed
D-myo-INOSITOL	Not Listed	Not Listed	Not Listed	Not Listed
NIACINAMIDE	Not Listed	Not Listed	Not Listed	Not Listed
THIAMINE HYDROCHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
CHOLINE CHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
PYRIDOXAL HYDROCHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
D-PANTOTHENIC ACID	Not Listed	Not Listed	Not Listed	Not Listed
CALCIUM SALT				
FOLIC ACID	Not Listed	Not Listed	Not Listed	Not Listed
RIBOFLAVIN	Not Listed	Not Listed	Not Listed	Not Listed

Components	Florida substance List:	Rhode Island Right to Know List:	Illinois - Toxic Air Contaminants	Connecticut - Hazardous Air Pollutants
WATER	Not Listed	Not Listed	Not Listed	Not Listed
SODIUM CHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
SODIUM BICARBONATE	Not Listed	Not Listed	Not Listed	Not Listed
D-(+)-DEXTROSE ANHYDROUS	Not Listed	Not Listed	Not Listed	Not Listed
POTASSIUM CHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
CALCIUM CHLORIDE DIHYDRATE	Not Listed	Not Listed	Not Listed	Not Listed
SODIUM PHOSPHATE MONOBASIC MONOHYDRATE	Not Listed	Not Listed	Not Listed	Not Listed
MAGNESIUM SULFATE ANHYDROUS	[present]	Flammable	Not Listed	Not Listed
L-LYSINE	Not Listed	Not Listed	Not Listed	Not Listed
MONOHYDROCHLORIDE				
L-LEUCINE	Not Listed	Not Listed	Not Listed	Not Listed
L-ISOLEUCINE	Not Listed	Not Listed	Not Listed	Not Listed
L-THREONINE ALLO FREE	Not Listed	Not Listed	Not Listed	Not Listed
L-VALINE	Not Listed	Not Listed	Not Listed	Not Listed
L-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE	Not Listed	Not Listed	Not Listed	Not Listed
L-TYROSINE	Not Listed	Not Listed	Not Listed	Not Listed
L-PHENYLALANINE	Not Listed	Not Listed	Not Listed	Not Listed
L-CYSTINE	Not Listed	Not Listed	Not Listed	Not Listed
PHENOL RED SODIUM SALT	Not Listed	Not Listed	Not Listed	Not Listed
L-METHIONINE	Not Listed	Not Listed	Not Listed	Not Listed
L-TRYPTOPHAN	Not Listed	Not Listed	Not Listed	Not Listed
D-myo-INOSITOL	Not Listed	Not Listed	Not Listed	Not Listed
NIACINAMIDE	Not Listed	Not Listed	Not Listed	Not Listed
THIAMINE HYDROCHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
CHOLINE CHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
PYRIDOXAL HYDROCHLORIDE	Not Listed	Not Listed	Not Listed	Not Listed
D-PANTOTHENIC ACID CALCIUM SALT	Not Listed	Not Listed	Not Listed	Not Listed
FOLIC ACID	Not Listed	Not Listed	Not Listed	Not Listed
RIBOFLAVIN	Not Listed	Not Listed	Not Listed	Not Listed

Components	SARA 313 Emission reporting/Toxic Release of Chemicals	CERCLA/SARA - Section 302 Extremely Haz	NTP:	IARC:
WATER	Not Listed	Not Listed	None	None
SODIUM CHLORIDE	Not Listed	Not Listed	None	None
SODIUM BICARBONATE	Not Listed	Not Listed	None	None
D-(+)-DEXTROSE ANHYDROUS	Not Listed	Not Listed	None	None
POTASSIUM CHLORIDE	Not Listed	Not Listed	None	None
CALCIUM CHLORIDE DIHYDRATE	Not Listed	Not Listed	None	None
SODIUM PHOSPHATE MONOBASIC MONOHYDRATE	Not Listed	Not Listed	None	None
MAGNESIUM SULFATE ANHYDROUS	Not Listed	Not Listed	None	None
L-LYSINE MONOHYDROCHLORIDE	Not Listed	Not Listed	None	None
L-LEUCINE	Not Listed	Not Listed	None	None
L-ISOLEUCINE	Not Listed	Not Listed	None	None
L-THREONINE ALLO FREE	Not Listed	Not Listed	None	None
L-VALINE	Not Listed	Not Listed	None	None
L-HISTIDINE MONOHYDROCHLORIDE MONOHYDRATE	Not Listed	Not Listed	None	None
L-TYROSINE	Not Listed	Not Listed	None	None
L-PHENYLALANINE	Not Listed	Not Listed	None	None
L-CYSTINE	Not Listed	Not Listed	None	None
PHENOL RED SODIUM SALT	Not Listed	Not Listed	None	None
L-METHIONINE	Not Listed	Not Listed	None	None
L-TRYPTOPHAN	Not Listed	Not Listed	None	None
D-myo-INOSITOL	Not Listed	Not Listed	None	None
NIACINAMIDE	Not Listed	Not Listed	None	None
THIAMINE	Not Listed	Not Listed	None	None
HYDROCHLORIDE				
CHOLINE CHLORIDE	Not Listed	Not Listed	None	None
PYRIDOXAL HYDROCHLORIDE	Not Listed	Not Listed	None	None
D-PANTOTHENIC ACID CALCIUM SALT	Not Listed	Not Listed	None	None
FOLIC ACID	Not Listed	Not Listed	None	None
RIBOFLAVIN	Not Listed	Not Listed	None	None

**SARA 313 Notification:**

The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

**State Notification:**

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

**16. OTHER INFORMATION**

**Prepared by:** Health & Safety

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**End of Safety Data Sheet**