



Must Be Used Under Medical Supervision

# COMPLEX MSD<sup>®</sup> ESSENTIAL

A valine-, leucine-, and isoleucine-free, powdered medical food containing a balanced mix of essential and non-essential amino acids, carbohydrates, fat, vitamins, minerals and trace elements.



**Indications:** Maple Syrup Urine Disease  
Suitable for individuals over 1 year of age.

## Nutrition Information:

Nutrients	Per 100 g	Per 40 g powder (1 scoop)
Calories	380	152
Protein Equivalent, g	25	10
Fat, g	12	5
Saturated, g	2.8	1.1
Monounsaturated, g	6.3	2.5
Polyunsaturated, g	2.7	1.1
Linoleic Acid, mg	1733	693
$\alpha$ -Linolenic Acid, mg	662	265
Carbohydrate, g	47	19
Fiber, g	3.9	1.5
<b>Amino Acids, g</b>		
L-Alanine	2.70	1.08
L-Arginine	1.28	0.51
L-Asparagine	1.45	0.58
L-Cystine	0.56	0.22
L-Glutamic Acid	0.86	0.35
L-Glutamine	7.17	2.87
Glycine	0.67	0.27
L-Histidine	1.79	0.71
L-Isoleucine	Nil Added	Nil Added
L-Leucine	Nil Added	Nil Added
L-Lysine	2.27	0.91
L-Methionine	0.74	0.30
L-Phenylalanine	2.20	0.88
L-Proline	1.48	0.59
L-Serine	1.12	0.45
L-Threonine	1.81	0.72
L-Tryptophan	1.33	0.53
L-Tyrosine	2.20	0.88
L-Valine	Nil Added	Nil Added
L-Carnitine	0.06	0.02
Taurine	0.14	0.06

Vitamins	Per 100 g	Per 40 g powder (1 scoop)
Vitamin A, IU (mcg RE) (25% as beta-carotene)	1700 (637)	680 (255)
Vitamin D <sub>3</sub> , IU (mcg)	600 (15)	240 (6.0)
Vitamin E, IU (mg $\alpha$ -TE)	18.4 (12.3)	7.3 (4.9)
Vitamin K, mcg	50	20
Thiamine, mg	1.5	0.60
Riboflavin, mg	1.5	0.60
Vitamin B <sub>6</sub> , mg	1.3	0.52
Vitamin B <sub>12</sub> , mcg	2.0	0.80
Niacin, mg	12	4.8
Folic Acid, mcg	250	100
Pantothenic Acid, mg	5.5	2.2
Biotin, mcg	30	12
Vitamin C, mg	60	24
Choline, mg	100	40
Inositol, mg	40	16
<b>Minerals</b>		
Calcium, mg	886	355
Phosphorus, mg	864	346
Magnesium, mg	200	80
Iron, mg	13	5.2
Zinc, mg	12	4.8
Manganese, mg	1.5	0.60
Copper, mcg	1000	400
Iodine, mcg	120	48
Molybdenum, mcg	75	30
Chromium, mcg	40	16.1
Selenium, mcg	100	40
Sodium, mg	600	240
Potassium, mg	1301	520
Chloride, mg	860	344

# Ordering/Reimbursement Information for Complex MSD® Essential:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
120460 - Vanilla	00847-0597-22	B4157 or B4162	4 x 454 g (1 lb)	1725

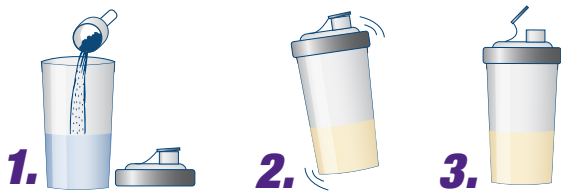
\* S9435 = For individuals who submit their bills to insurance on their own.

## Ingredients:

Sugar, L- Glutamine, Modified Food Starch, Dextrin, Canola Oil, Maltodextrin, Safflower Oil, L-Lysine Acetate, L-Alanine, Natural and Artificial Flavors, Tricalcium Phosphate, Potassium Citrate, L-Phenylalanine, L-Tyrosine. Contains 2% or less of the following: L-Threonine, L-Histidine, L-Asparagine Monohydrate, Magnesium Phosphate, Sodium Chloride, L-Proline, Dipotassium Phosphate, L-Tryptophan, L-Arginine, L-Serine, Coconut Oil, Soybean Oil, L-Glutamic Acid, L-Methionine, Glycine, L-Cystine, Flaxseed Oil, Titanium Dioxide, Choline Bitartrate, Ascorbyl Palmitate, Mixed Tocopherols, Rosemary Extract, Sodium Citrate, Taurine, Ascorbic Acid, L-Carnitine, Ferrous Sulfate, Inositol, Vitamin E Acetate, Zinc Sulfate, Calcium Phosphate, Niacinamide, Copper Gluconate, Calcium D-Pantothenate, Vitamin D<sub>3</sub>, Vitamin A Palmitate, Vitamin K<sub>1</sub>, Manganese Sulfate, Mono- and Diglycerides, D-Biotin, Beta-Carotene, Chromium Chloride, Sodium Selenite, Pyridoxine Hydrochloride, Riboflavin, Potassium Iodide, Thiamine Mononitrate, Folic Acid, Sodium Molybdate, Vitamin B<sub>12</sub>.

**Contains: Coconut Oil, Soybean Oil.**

## Mixing Instructions:



1. Simply add 1 scoop (40 g) to approx. 7 fl oz (210 mL) of cold water. Dilution may be adjusted to personal taste. For greater accuracy, use a gram scale.
2. Cover with a tight-fitting lid and shake until fully blended.
3. Enjoy immediately or store formula in a refrigerator for no more than 24 hours from time of preparation. Shake or stir prepared stored formula again before use.

Best served chilled.

## Storage:

Store unopened cans at room temperature away from sunlight. Avoid extreme temperatures. Once a can is opened, reseal with lid provided and use within one month.

## Important Notice:

Must only be used under medical supervision. For oral or tube feedings. Not for parenteral use. Not suitable as a sole source of nutrition. Only suitable for individuals over 1 year of age with proven maple syrup urine disease (MSUD).

