

# COMPLEX MSD<sup>®</sup> JUNIOR

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. Not indicated for infant use.



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

## Nutrition Information:

Nutrients	Per 100 g of powder	Per 100 kcal
Calories	494	100
Protein Equivalent, g	13	2.6
Fat, g	29	6
Saturated, g	10.2	2.1
Monounsaturated, g	13.4	2.7
Polyunsaturated, g	5.0	1.0
DHA, mg	88	17.9
ARA, mg	88	17.9
Linoleic Acid, mg	3730	755
Carbohydrate, g	46	9
<b>Amino Acids, g</b>		
L-Alanine	1.40	0.28
L-Arginine	0.66	0.13
L-Asparagine	0.75	0.15
L-Cystine	0.29	0.06
L-Glutamic Acid	0.45	0.09
L-Glutamine	3.71	0.75
Glycine	0.35	0.07
L-Histidine	0.92	0.19
L-Isoleucine	Nil Added	Nil Added
L-Leucine	Nil Added	Nil Added
L-Lysine	1.17	0.24
L-Methionine	0.38	0.08
L-Phenylalanine	1.14	0.23
L-Proline	0.76	0.16
L-Serine	0.58	0.12
L-Threonine	0.94	0.19
L-Tryptophan	0.69	0.14
L-Tyrosine	1.14	0.23
L-Valine	Nil Added	Nil Added
L-Carnitine	0.03	0.01
Taurine	0.07	0.01

Vitamins	Per 100 g of powder	Per 100 kcal
Vitamin A, IU (mcg RE)	1187 (356)	240 (72)
Vitamin D <sub>3</sub> , IU (mcg)	429 (10.7)	87 (2.2)
Vitamin E, IU (mg α-TE)	13.8 (9.2)	2.8 (1.9)
Vitamin K, mcg	62	12.6
Thiamine, mg	1.1	0.22
Riboflavin, mg	0.81	0.16
Vitamin B <sub>6</sub> , mg	0.78	0.16
Vitamin B <sub>12</sub> , mcg	2	0.4
Niacin, mg	5.8	1.2
Folic Acid, mcg	140	28
Pantothenic Acid, mg	3.4	0.69
Biotin, mcg	36	7.2
Vitamin C, mg	78	15.8
Choline, mg	244	49
Inositol, mg	148	30
<b>Minerals</b>		
Calcium, mg	596	121
Phosphorus, mg	444	90
Magnesium, mg	68	13.8
Iron, mg	14.7	3
Zinc, mg	29	5.8
Manganese, mg	0.44	0.09
Copper, mcg	952	193
Iodine, mcg	96	19.4
Molybdenum, mcg	15.8	3.2
Chromium, mcg	16.2	3.3
Selenium, mcg	44	8.9
Sodium, mg	303	61
Potassium, mg	797	161
Chloride, mg	384	78

# Ordering/Reimbursement Information for Complex MSD® Junior:

Product Code	Reimbursement Code	HCPCS Code*	Product Packaging	Calories Per Can
120911 - Unflavored	00847-0591-02	B4157 or B4162	4 x 400 g (14.1 oz)	1976

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

## Ingredients:

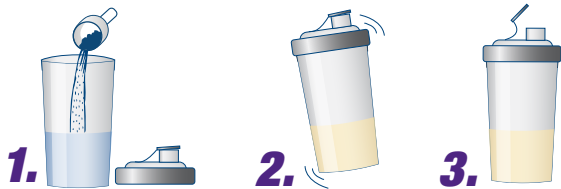
Corn Syrup Solids, Maltodextrin, Modified Corn Starch, Canola Oil, Safflower Oil, Coconut Oil, L-Glutamine, Soybean Oil. Contains 2% or less of the following: Tricalcium Phosphate, L-Lysine Acetate, L-Alanine, L-Phenylalanine, L-Tyrosine, Sodium Citrate, Dipotassium Phosphate, L-Threonine, L-Histidine, L-Asparagine Monohydrate, L-Proline, L-Tryptophan, Choline Bitartrate, L-Arginine, Ascorbyl Palmitate, Mixed Tocopherols, Magnesium Chloride, Rosemary Extract, L-Serine, Potassium Citrate, Potassium Chloride, L-Glutamic Acid, L-Methionine, Glycine, Silicon Dioxide, L-Cystine, *C. cohnii* Oil,\* Glucose Syrup Solids, Mono- and Diglycerides, *M. alpina* Oil,\*\* Inositol, Ascorbic Acid, Zinc Sulfate, Taurine, Ferrous Sulfate, High Oleic Sunflower Oil, Mannitol, L-Carnitine, Vitamin E Acetate, Glycerol, Mono- and Distearate, Natural Flavor, Sodium Polyphosphate, Sunflower Lecithin, Sodium Ascorbate, Vitamin K<sub>1</sub>, Niacinamide, Vitamin A Palmitate, Vitamin D<sub>3</sub>, D-Calcium Pantothenate, D-Biotin, Copper Sulfate, Manganese Sulfate, Thiamine Hydrochloride, Potassium Iodide, Pyridoxine Hydrochloride, Sodium Selenite, Riboflavin, Vitamin B<sub>12</sub>, Folic Acid, Chromium Chloride, Sodium Molybdate.

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

\* A source of Docosahexaenoic Acid (DHA)

\*\* A source of Arachidonic Acid (ARA)

## Mixing Instructions:



1. Simply add prescribed amount of Complex MSD Junior to recommended amount of cold water. Dilution may be adjusted to taste. For greater accuracy, use a gram scale.
2. Cover with a tight-fitting lid and shake until completely mixed together.
3. Once prepared, store formula in a refrigerator for no more than 24 hours from the time of preparation. Shake or stir prepared formula immediately before use.

Best served chilled.

## Recommended Dilution

Dilution of approx. 21 Calories per 1 fluid ounce

To Make Approx.	Water	Amount of Powder
2 fl oz	1.8 fl oz	8.5 g (approx. 1 scoop)
4 fl oz	3.7 fl oz	17 g (approx. 2 scoops)
6 fl oz	5.3 fl oz	26 g (approx. 3 scoops)
8 fl oz	7.2 fl oz	34 g (approx. 4 scoops)

For greater accuracy, use a gram scale.

## 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).

