

## **DESCRIPTION**

**Use under medical supervision.** MSUD gel is an unflavored, powdered, leucine, isoleucine and valine free medical food, containing essential and non essential amino acids, carbohydrate, vitamins, minerals and trace elements.



**INDICATIONS**: Suitable from 1 year of age.

## **DOSAGE AND ADMINISTRATION**

To be determined by the clinician or dietitian and is dependent on the age, body weight and medical condition of the patient.

Each 24g packet of MSUD gel provides 10g of protein equivalent.

- The daily protein requirement is given as MSUD gel.
- Additional protein is provided from exchanges of natural protein, to provide leucine, isoleucine and valine in controlled amounts, which is essential for growth and development.
- Foods high in carbohydrate and fat, but low in protein, should be provided to supply the remainder of the energy.

#### PREPARATION GUIDELINES

MSUD gel can be taken either as a gel or a low volume drink.

# For gel:

- Step 1: Empty the contents of the packet, plus ½
  -1 FlavourPac packet if desired, into the
- Step 2: Add 30ml (1fl. oz.) of cold water. Secure the lid and shake well for 10 seconds.
- Step 3: Leave to stand for 2 minutes, allowing a smooth gel to form. Consume from spoon.

## For low volume drink:

Step 1: Empty the contents of the packet, plus½ -1 FlavourPac packet if desired, into the beaker.

Step 2: Add approximately 80ml (approx. 3fl. oz.) of cold water. Secure the lid and shake well for 10 seconds.



The product should ideally be freshly prepared and used immediately.

Water or permitted drinks should be taken after the MSUD gel.

# **STORAGE**

Store in a cool, dry place.

Packets are designed for single use and should be used once opened.

PACK SIZE: 30 x 24g packets

**WEIGHT:** 720g e **SHELF LIFE:** 18 months

# **IMPORTANT NOTICE**

Must only be given to patients with proven MSUD under strict medical supervision.

Suitable from 1 year of age.

Diet must be supplemented with natural protein, water and other nutrients in prescribed quantities to supply leucine, isoleucine, valine, fluid and general requirements.

Not for use as a sole source of nutrition.

Not for intravenous use.

MSUD gel Nutrition Information			
	Units	per 100g	per 24g (1 packet)
Calories	kcal	338	81
Protein equivalent	g	41.7	10
Total Carbohydrate	9	43	10.3
Sugars	g	27	6.5
Total Fat	9	0	0
Saturates	9	0	0
VITAMINS			
Vitamin A	IU/μg RE	1765/530	424/127
Vitamin D	IU/μg	520/13	125/3.1
Vitamin E	IU/mg α TE	12/8	3.3/1.9
Vitamin C	mg	56	13
Vitamin K	ŀ9	36	8.6
Thiamine	mg	0.89	0.21
Riboflavin	mg	1.1	0.26
Niacin	mg	12	2.9
Vitamin B6	mg	0.98	0.24
Folic acid	ЬA	180	43
Vitamin B12	РВ	1.8	0.43
Biotin	hà	25	6.0
Pantothenic acid	mg	4.4	1.1
Choline	mg	250	60
MINERALS	9		
Sodium	mg	379	91
Potassium		830	200
Chloride	mg mg	520	125
Calcium		1080	260
Phosphorus	mg	730	175
	mg	150	36
Magnesium	mg	12.4	3.0
Iron Copper	mg	0.70	0.17
Zinc	mg mg	10	2.4
Manganese	mg	1.5	0.36
lodine	ьд	120	29
Molybdenum	р <del>у</del>	44	11
Selenium	Иg	31	7.4
Chromium	Ьà	63	15
AMINO ACIDS			
L-Alanine	g	5.11	1.23
L-Arginine	9	4.85	1.16
L-Aspartic acid	9	6.13	1.47
L-Cystine	9	1.45	0.35
L-Glutamine	9	5.51	1.32
Glycine	g	4.06	0.97
L-Histidine	g	1.74	0.42
L-Isoleucine	9	0	0
L-Leucine	9	0	0
L-Lysine	9	3.65	0.88
L-Methionine	9	1.05	0.25
L-Phenylalanine	g	2.73	0.66
L-Proline	9	4.29	1.03
L-Serine	9	0 2.61	0.70 0.63
L-Threonine	9	1.45	0.63
L-Tryptophan L-Tyrosine	9	2.90	0.35
L-Valine	9	0	0.70
L-Carnitine	g mg	46	11
Taurine	mg	92	22



MSUD gel (Unflavored) -Ingredients: Sucrose, Corn Starch, L-Lysine L-Aspartate, L-Arginine L-Aspartate, L-Alanine, L-Glutamine, Modified Corn Starch, L-Proline, Glycine, L-Serine, L-Tyrosine, L-Phenylalanine, L-Threonine, Calcium Phosphate, L-Histidine, L-Tryptophan, L-Cystine, Calcium Glycerophosphate, Sodium Citrate, Magnesium Phosphate Dibasic, L-Arginine, Potassium Chloride, L-Methionine, Potassium Citrate, Choline Bitartrate, Maltodextrin, Ascorbic Acid, Taurine, Salt, Zinc Gluconate, L-Carnitine L-Tartrate, Ferrous Sulfate, DL  $\alpha$  Tocopherol Acetate, Niacinamide, Manganese Gluconate, Chromium Chloride, Sodium Selenite, Retinyl Acetate, Vitamin D3, Copper Gluconate, Calcium Pantothenate, Biotin, Folic Acid, Vitamin K, Potassium Iodide, Pyridoxine Hydrochloride, Thiamine Hydrochloride, Sodium Molybdate, Riboflavin, Vitamin B12.

\*No added Leucine, Isoleucine and Valine. Leucine, Isoleucine and Valine may be present in trace amounts from other ingredients (<3mg/100g)



Innovation in Nutrition

A Nestle Health Science Compnay

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