

0.8mg 16 µg 29 Tri Sodium citrate providing sodium (elemental) 129mg 34.48 mg Zinc AAC 10% providing zinc (elemental) 40mg 4 mg

Echinacea purpurea (Echinacea) Leaf

Zingiber officinalis (Ginger Root extract)

proprietary effervescent blend (2278 mg).

• Contains Sugars: Mannitol 374 mg per effervescent tablet • Contains Sweeteners: Sucralose 25 mg per effervescent tablet

• Excipients: Sunset Yellow (E110) (5 mg), Orange Flavouring (200 mg) and a

• Effervescent blend: sodium bicarbonate, citric acid, polyethylene glycol and silicon

ALPHA ImmuneBoost Fizzy may be used as a daily maintenance supplement and may help

Adults: One effervescent tablet daily dissolved in a glass (250 ml) of water, after a meal.

Do not exceed the recommended dosage without consulting a relevant healthcare provider.

Hypersensitivity to the active substances or to any of the excipients or to members of the

• Vitamin A is contraindicated in pregnancy, breastfeeding patients, and patients with hypersensitivity to this class of drugs. It should be prescribed with caution to patients

• Vitamin C supplementation is contraindicated in blood disorders like thalassemia,

supplements immediately before or following angioplasty. Diabetic patients should

• Vitamin C should be used cautiously in oxalate nephropathy or nephrolithiasis as possible acidification by ascorbic acid may increase the chances of precipitation of

Diabetes, Systemic Lupus Erythematosus, Rheumatoid Arthritis, Multiple Sclerosis,

Consult a registered healthcare provider prior to use if you are taking any other medicine or

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Certain medications may be influenced by ALPHA ImmuneBOOST Fizzy (see MEDICINE INTERACTIONS). Consider using ALPHA ImmuneBOOST Fizzy two (2) hours before or

• Patients suffering from glucose-6-phosphatase deficiency should not take higher than

In patients suffering from renal failure or insufficiency, acute or chronic high doses of

Vitamin C may interfere with laboratory tests resulting in false readings. If such tests are planned, discontinue use of ALPHA ImmuneBOOST Fizzy 3-4 days prior to the test and

Interactions between medications and Echinacea are not uncommon. While the dosage present in ALPHA ImmuneBOOST Fizzy is not known to cause significant interactions, it should nevertheless be introduced with caution in patients consuming acute or chronic

• Echinacea may interact with immunosuppressants. • Rasagiline (Azilect) an MOA-type B inhibitor due to

results. Please check the package insert of the test kit or meter for guidance.

The efficacy of certain medicines may be affected by the presence of nutrients.

CYP450 1A2 isoenzyme (conflicting data). If symptoms such as drowsiness, blood pressure changes, nausea, vomiting, or behavioural changes occur, discontinue use of

headedness, hypotension, and bradycardia occur, discontinue use of ALPHA

Vitamin C may reduce cyclosporine (immunosuppressant) blood levels.

High doses of Vitamin C may interfere with the effectiveness of Warfarin

Neomycin may inhibit the absorption of Vitamin A from the intestinal tract.

coagulation levels when commencing use of ALPHA ImmuneBOOST Fizzy.

which may interfere with the effectiveness of Indinavir.

• Tizanidine (Zanaflex) an anti-spasmodic due to Echinacea's inhibition of the CYP450 1A2 isoenzyme (conflicting data). If symptoms such as drowsiness, dizziness, light

High doses of vitamin C may reduce the serum concentration of Indinavir (antiretroviral),

The absorption of Vitamin C from the intestinal tract may be negatively affected by a very

At levels of >400iU per day, Vitamin E may influence the efficacy of certain anti-coagulants.

It was previously believed that Ginger may influence the efficacy of Warfarin. While this has been disproven, it is nevertheless advisable to monitor coagulation levels in patients using Warfarin when commencing use of ALPHA ImmuneBOOST Fizzy. Other medications which may interact with ginger, albeit usually at higher doses, include agents with antiplatelet

Zinc forms complexes with certain substances in the intestine (including tetracyclines,

quinolone antibiotics and penicillamine) resulting in decreased absorption of both Zinc and the medication. This may typically be prevented by separating the consumption of ALPHA ImmuneBOOST Fizzy by two (2) hours before or four (4) hours after use of the other drug,

The acute or chronic use of antacids may lead to malabsorption of some minerals (due to the

calcium content of many antacids) and the resulting imbalances and deficiencies.

• In patients with homo- or heterozygous hereditary hemochromatosis small increases

Dairy products used at the same time as ALPHA ImmuneBOOST Fizzy may inhibit the absorption of minerals from the intestine due to the Calcium content of dairy products.

Vitamin C is a strong reducing agent. It can therefore influence laboratory tests based on oxidation-reduction reactions, such as the urine or serum analyses of glucose, creatinine, carbamazepine, uric acid, and inorganic phosphates or the analysis of occult blood in faeces. Using specific tests that are not dependent on reducing properties or discontinuing extra dietary vitamin C a few days prior to the tests will avoid any undesirable interference. Refer

to the manufacturer's information to determine if vitamin C interferes with the test.

ALPHA ImmuneBOOST Fizzy has not been tested for safety during Pregnancy and

ALPHA ImmuneBOOST Fizzy may have some side-effects although none have been

Assessment of undesirable effects is based on the following frequency groupings:

Very common (≥1/10); common (≥1/100 to 1/10); uncommon (≥1/1 000 to 1/100); rare $(\geq 1/10\ 000\ to\ 1/1\ 000)$; very rare (1/10\ 000); Not known; cannot be estimated from the

Minor gastrointestinal complaints, particularly stomach upset, eructation, dyspepsia and

Reporting suspected adverse reactions after authorisation of the medicine is important. It allows continued monitoring of the benefit/risk balance of the medicine. Health care providers are asked to report any suspected adverse reactions to SAHPRA via the "6.04 Adverse Drug Reactions Reporting Form", found online under SAHPRA's publications:

Excess natural or synthetic vitamin A levels may result in a wide array of adverse effects. Vitamin A toxicity, also known as hypervitaminosis A, is more commonly associated with abuse of vitamin A supplements than with health intervention programs. Toxic reactions may also be provoked by consuming liver products rich in vitamin A or excess administration of

Acute vitamin A toxicity may occur with a single ingestion of 25,000 IU/kg or more. Signs and symptoms include nausea, vomiting, diarrhea, dizziness, lethargy, drowsiness, increased

Individuals with mild to moderate renal insufficiency may be susceptible to some effects of vitamin C toxicity at the levels present and should consult a registered healthcare professional

urinary oxalate levels. In some instances, this may lead to hyperoxaluria, calcium oxalate

It is extremely unlikely that overdose of any other ingredients of ALPHA ImmuneBOOST

Ascorbic acid is an essential water-soluble vitamin and antioxidant. Ascorbic acid and its metabolite dehydroascorbic acid form a reversible redox system. Ascorbic acid functions as a cofactor in several hydroxylation and amination reactions by transferring electrons to enzymes. The antioxidant properties of Ascorbic Acid are largely responsible for its ability to

combat pathogens as well as toxins and to bind to waste products of metabolism and

Vitamin A is a fat-soluble vitamin needed for visual adaptation to darkness, maintenance of

The in vivo synthesis of the biologically active metabolites of vitamin D occurs in two steps. The first hydroxylation of vitamin D3 cholecalciferol occurs in the liver in the presence of Cytochrome P-450 enzymes to yield 25(OH)D3 while the second hydroxylation happens in the kidneys to give 1, 25-dihydroxyvitamin D. This synthesis takes approximately 10 to 24 hours to occur. The Vitamin D metabolism in the kidneys is regulated by parathyroid

Vitamin E is a fat-soluble vitamin which acts as an antioxidant to prevent the oxidation of vitamins A and C and polyunsaturated fatty acids in membranes (thereby protecting body cells against free radical damage). It also protects red blood cells against haemolysis.

One mechanism of vitamin E's antioxidant effect is that it reacts with unstable lipid radicals, producing stable lipids and a relatively stable vitamin E radical. The vitamin E radical is then reduced back to stable vitamin E by reaction with ascorbate (Vitamin C) or glutathione.

Biologically active constituents include alkamides (mostly isobutylamides), polyalkenes, polyalkynes, caffeic acid derivatives, and polysaccharides. Studies indicate that the alkamides

are available following oral administration, but the caffeic acid derivatives are not.

Manganese is an essential nutrient which serves as an activator for enzymes such as polysaccharide polymerase, liver arginase, cholinesterase, and pyruvate carboxylase.

Magnesium deficiency also impacts the immune system through reduced

development of the thymus and the spleen.

Magnesium is a cofactor for more than 300 enzymes. Several biochemical processes are regulated by Magnesium including blood pressure, nerve transmission, neuromuscular conduction (including cardiac excitability) and vasomotor tone, muscular contraction, and

efficiency of Macrophages and increased incidence of inflammation as well as the optimal

Potassium is the major cation of intracellular fluid and is essential for the conduction of nerve impulses in heart, brain, and skeletal muscle; contraction of cardiac, skeletal, and smooth muscles; maintenance of normal renal function, acid-base balance, carbohydrate metabolism,

Selenium is a trace metal which is first metabolized to selenophosphate and selenocysteine and is then incorporated into many different selenoproteins. It is particularly important as a component of glutathione peroxidase and thioredoxin reductase which are enzymes that prevent cellular damage by free radicals and reactive oxygen species. The importance of

Sodium is one of the body's primary electrolytes and plays an important role in maintaining the hydration homeostasis. 60% of the body's stored Sodium is in the fluids surrounding the Cells (extracellular) and 10% concentrates inside the body's Cells (in the Intracellular Fluid). Sodium is the principal anion (negatively charged ion) in the Intracellular Fluid and may

Zinc has three primary biological roles: catalytic, structural, and regulatory. It has been

function wound healing, protein synthesis, DNA synthesis, and cell division. Zinc is an essential element for a proper sense of taste and smell and supports normal growth and

development during pregnancy, childhood, and adolescence.

gastrointestinal tract and the large intestine.

of antibodies, hormones & enzymes.

Pharmacokinetic properties

than in one single, larger dose.

Vitamin A

Vitamin D

aid of Bile.

Vitamin E

Manganese

Potassium

Selenium

Sodium

Zinc

is approximately 62 days.

concentrations ranging from 6 to 12 mcg/l.

persons consuming NRV values or less.

Selenium is 100 - 130 ng per ml.

the faeces and perspiration.

secretions and Zinc from sloughing of mucosal cells.

amino acid sugars and excreted via the relevant metabolites.

muscle. Metabolites are mainly excreted via the urine.

Keep the tube tightly closed to protect from moisture.

Box of one or three tubes containing 10 or 30 tablets. Special precautions for disposal and other handling.

APPLICANT (CERTIFICATE OF REGISTRATION) Alpha Pharm Retail Promotions (Pty) Ltd Suite 5 Village Square, 19A Village Road, Kloof

10 effervescent tablets in polypropylene tube closed by a PE stopper.

ALPHA ImmuneBOOST Fizzy are well known.

PHARMACEUTICAL PARTICULARS

effervescent blend (3454 mg).

Special precautions for storage

Use within 30 days of opening. Nature and contents of container

Store at or below 25 °C.

www.alphapharm.co.za This leaflet was created in

REGISTTRATION NUMBER:

Not applicable

February 2021

To be allocated

bound to albumin.

L-Glutamine

L-Lysine

Preclinical safety data

List of excipients

and Silicon Dioxide. Incompatibilities Not applicable

Shelf life 24 Months

ascorbic acid is approximately 24%.

unchanged form in the urine and faeces.

g, increasing quantities are excreted unchanged in the faeces.

estimated that 10% of human proteins may bind zinc and hundreds more may transport it. It is required for the catalytic activity of more than 200 enzymes, and it plays a role in immune

Glutamine is a non-essential but important constituent of proteins. Glutamine is also crucial in nitrogen metabolism. Ammonia is assimilated into organic compounds by converting

Lysine is an essential amino acid which is helps to regulate the adequate absorption of

at one sitting, with the absorbed percentage decreasing with an increased intake. It is

The physiological body pool of vitamin C is about 1500 mg. Plasma protein binding of

Ascorbic acid is metabolised via dehydroascorbic acid partly (0.3%) to oxalic acid and other products. When ingested in excessive quantities, however, ascorbic acid is largely excreted in

The elimination half-life following an oral dose of 1 g is about 13 hours. Below an oral intake of about 3 g vitamin C per day, the main route of excretion is renal. With doses exceeding 3

Water miscible preparations of Vitamin A are well absorbed in the small intestine while oil preparations take a bit longer. Large oral doses, conditions of fat malabsorption, low protein intake, or hepatic or pancreatic disease reduce oral absorption. Excess Vitamin A is stored in

Vitamin A is converted to retinol in the small intestine and further metabolized in the liver where it is conjugated with glucuronide. Metabolite excretion takes place via the Faeces or

Vitamin D is absorbed via the Ileum of the Small Intestine with other dietary Fats with the

The half-life of circulating Vitamin D is 1 – 2 days. The whole-body half-life of Vitamin D3

Vitamin E is comprised of several different fat-soluble molecules. Absorption of Vitamin E is dependent upon absorption of the fat in which it is dissolved with about 10-40% being absorbed in the small intestine. Some Vitamin E may be stored in the liver. The various molecules undergo beta oxidation and a process mediated by cytochrome P450s and the metabolites are excreted mainly in the urine but may also be excreted via the faeces (bile).

Normally around 20 mcg /day of ingested Manganese is retained. Excretion of Manganese occurs mainly through the bile, but it may also be excreted via pancreatic juice, or be returned

Manganese is bound to the beta-l-globulin transport protein, transmanganin. Manganese is widely distributed but concentrates in the tissues which are rich in mitochondria such as

Magnesium is absorbed primarily via passive, paracellular absorption in the ileum of the small intestine. The rate of absorption declines with age. Absorption is inversely proportional to the amount consumed and is therefore highest in persons with Hypomagnesemia and in

The elimination half-life of Magnesium is between 41 and 181 days and the large majority is

Potassium chloride is water soluble, with potassium being readily absorbed (on average 90%) primarily from the large intestine. The average human body contains a total of 120 grams of Potassium. Aldosterone (Steroid Hormone) controls the body's retention of Potassium.

Between 35% - 85% of Selenium ingested may be absorbed from the Gastro-Intestinal tract. The major path of excretion is via the urine. The average human body contains a total of 21 mg of Selenium (for a 70 kg person). The approximate normal Blood Plasma concentration of

Sodium is a water soluble, alkalising macro-mineral which is easily absorbed from the Gastro-Intestinal tract. The body of a person of average weight contains about 95 grams of Sodium (mainly in the form of Sodium Chloride). Excess of Sodium is excreted via the urine,

Most orally ingested Zinc is absorbed through the Jejunum (up to 40%-90% on an empty

The major route of Zinc excretion is via the gastrointestinal tract. Faecal Zinc excretion is comprised of unabsorbed Zinc and Zinc derived from biliary, pancreatic, and gastrointestinal

Absorption occurs via an active transport mechanism from the Gastro-Intestinal tract. Orally administered Glutamine supplements effectively increase serum Glutamine levels (a dose of

minutes). Glutamine is involved in the formation of glutamate, proteins, nucleotides, and

Lysine is absorbed from the small intestine by an active transport mechanism and moved to the liver via the hepatic portal system, where it is metabolised. Lysine is rapidly transported to muscle tissue, and within 5 to 7 hours following ingestion is highly concentrated in the

No specific study with this product was done, but the properties of the active ingredients of

• Excipients: Vanilla Flavour (25 mg), Raspberry Flavour (200 mg), Carmosine Colouring (E122) (2.5 mg), Ponceau Colouring (E124) (2,5 mg) and a proprietary

• The effervescent blend contains sodium bicarbonate, citric acid, polyethylene glycol

5 grams of Glutamine may increase serum Glutamine levels by up to 50% within 30

extracted by the Liver Cells, and the remaining Zinc is transported to the various cells of the body via the systemic circulation. Approximately 80% of Zinc is transported in the plasma

stomach). It is transported to the liver via the portal circulation. A fraction of Zinc is

into the lumen of the small intestine. Urinary excretion of Manganese is negligible

brain, kidney, pancreas, and liver. Assays for Manganese in whole blood result in

excreted renally. Magnesium does not appear to be metabolised.

Excess Potassium is eliminated from the body via the Urine and Perspiration.

transport. Absorption is dependent upon the amount of ascorbic acid taken

calcium, helps form collagen (bone cartilage & connective tissues) and aids in the production

therefore advisable to take oral ascorbic acid in small doses spread throughout the day, rather

Ascorbic Acid is absorbed primarily in the upper part of the small intestine via sodium dependent active

glutamic acid to glutamine by the enzyme glutamine synthetase. Glutamine can then be used as a nitrogen donor in the biosynthesis of many compounds, including other amino acids, purines, and pyrimidines. L-glutamine plays a major role in protecting the integrity of the

selenium in these antioxidant proteins is specifically related to the reduction of atherosclerosis by preventing the oxidation of low-density lipoprotein (LDL).

insulin metabolism. Deficiency can impact the nervous, cardiovascular, gastric, or musculo skeletal systems.

before use of ALPHA ImmuneBOOST Fizzy. These may include elevated serum and

crystalluria, calcium oxalate deposition, kidney stone formation, tubulointerstitial

nephropathy, and acute renal failure. If symptoms occur, discontinue usage.

intracranial pressure, and skin changes such as erythema, pruritus, or desquamation. Chronic vitamin A toxicity may occur with excessive ingestion of 4000 IU/kg or more daily for 6-15 months. Signs and symptoms include low-grade fever, headache, fatique, anorexia, intestinal disturbances, hepatosplenomegaly, anemia, hypercalcemia, subcutaneous swelling, nocturia, joint and bone pain, and skin changes such as yellowing, dryness, alopecia, and

vitamin A preparations. The amount of vitamin A required to cause toxicity among

Excessive Vitamin C may cause diarrhoea. If other sources of Vitamin C are being used, consider reducing the total daily intake, or spreading the intake out in smaller doses

reported to date and ALPHA ImmuneBOOST Fizzy is generally well tolerated.

Undesirable effects are listed by MedDRA System Organ Classes.

ALPHA ImmuneBOOST Fizzy has no or negligible influence on the ability to drive and use

Although Vitamin C has no effect on blood glucose levels, it may affect the readings of home tests that measure urinary and blood glucose, resulting in false readings. Please refer to the

Ascorbic Acid may increase absorption of Iron from the intestine. • This may be of particular benefit to patients with iron deficiency.

package insert of the meter or testing kit for correct usage.

EFFECTS ON ABILITY TO DRIVE AND USE MACHINES

FERTILITY, PREGNANCY AND LACTATION

Lactation. No fertility data available.

If symptoms arise, discontinue use.

UNDESIRABLE EFFECTS

available data

Hypersensitivity

Immune system disorder Frequency not known

Gastrointestinal disorder Frequency not known

nausea have been reported.

Renal and urinary disorder Frequency not known

Renal impairment, mild increase in urine creatinine. Musculoskeletal and connective tissue disorder

Skin and subcutaneous tissue disorders

Reporting of suspected adverse reactions

https://www.sahpra.org.za/Publications/Index/8

individuals varies depending on age and hepatic function.

Hypersensitivity reactions (Skin rash)

throughout the day.

Frequency not known

Frequency not known

Nervous system disorders Frequency not known

Headache, changes in vision.

Muscle cramps

OVERDOSE Vitamin A

photosensitivity.

may occur at the levels present. See "UNDESIRABLE AFFECTS" PHARMACOLOGICAL PROPERTIES Category D: Complementary Medicine

Discipline: Health Supplement

Pharmacodynamic properties

infectious processes.

Classification: 34.12 Multiple substance formulation

epithelial cells, immune function, and embryonic development.

Vitamin C

Vitamin C

Vitamin A

hormone. Vitamin E

Echinacea

Manganese

Magnesium

Potassium

Selenium

and gastric secretion

reverse Acidosis.

L-Glutamine

Zinc

in iron absorption may lead to iron overload.

properties, non-steroidal anti-inflammatory agents, salicylates or thrombolytic agents, anti hypertensives, and

Chronic or high doses of Vitamin C may interfere with the effectiveness of Disulfiram.

Many medications such as aspirin, antibiotics, laxatives, antacids, Cholestyramine and

In patients using additional sources of Vitamin E, it is therefore advisable to monitor

Echinacea may cause unwanted side effects when used with:

Ascorbic Acid increases risk of adverse effects including acute tubular necrosis, and/or renal

Vitamin C may interfere with test kits and meters measuring glucose levels resulting in false

• Have Hypercalcaemia, haemochromatosis, and other iron storage disorders.

the recommended dose as very high doses of Vitamin C may lead to haemolytic

• Liver Cirrhosis (due to the Manganese content) • Echinacea is contra-indicated in patients suffering from

Children: ALPHA ImmuneBoost Fizzy is not recommended for this age group.

Children. • Sever renal impairment and neuromuscular disease.

with hepatic disease, renal disease, alcoholism, and acne vulgaris.

• Hypercalcaemia, haemochromatosis, and other iron storage disorders.

G6PD deficiency, sickle cell disease, and hemochromatosis. Avoid taking

take vitamin C supplements with care as it raises blood sugar levels.

As 140mg of a 4:1 extract

As 50mg of a 4:1 extract

** No NRV established

PHARMACEUTICAL FORM

Speckled pale orange, cylindrical.

in the prevention and treatment of:

 Repeated bacterial or viral infections Posology and Method of Administration

Effervescent Tablet

Colds and Flu

CLINICAL PARTICULARS THERAPEUTIC INDICATIONS

CONTRAINDICATIONS

Compositae family of plants.

cysteine, urate, and oxalate stones.

Leukosis, Tuberculosis and HIV infection.

have been diagnosed with a chronic condition.

SPECIAL WARNINGS AND PRECAUTIONS FOR USE

have been diagnosed with a chronic condition.

Consult a relevant healthcare provider if you:

Do not exceed the recommended doses.

four (4) hours after such medications.

are pregnant or breastfeeding

See "CONTRAINDICATIONS" Ascorbic Acid (Vitamin C)

resume after completion.

INTERACTIONS

medication.

Medicine interactions

Echinacea's inhibition of the

ALPHA ImmuneBOOST Fizzy

wide range of pharmaceuticals.

ImmuneBOOST Fizzy.

Vitamin C

Vitamin A

Vitamin E

Ginger

Minerals

Vitamin C

Minerals

Food Interactions

Other Interactions

Vitamin C and laboratory tests

hypoglycaemic agents.

unless otherwise specified.

See "SPECIAL WARNINGS AND PRECAUSTIONS FOR USE"

• have severe renal impairment and neuromuscular disease.

have hepatic disease, renal disease, alcoholism, or acne vulgaris.

Autoimmune disease,

See "INTERACTIONS"

anaemia.

L-Lysine 25 mg **

50 mg ** L-Glutamine 25 mg **

*NRV (Nutrient Reference Values)

140 mg **

dioxide.