

SAFETY DATA SHEET

VALUE PLUS FOLIC B12 INJECTION

SECTION 1 IDENTIFICATION

Product Name: VALUE PLUS FOLIC B12 INJECTION
Company Product Code: VAL2660
Other Names: Folic Acid and Vitamin B12 in aqueous solution.
Recommended Use/Restrictions: Folic acid and vitamin B12 supplement for the treatment of macrocytic anaemia in horses and dogs.

Company: Zoo Pets Pty Ltd
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Emergency Telephone Number: Poisons Information Centre 13 11 26

SECTION 2 HAZARDS IDENTIFICATION

Hazard Classification: Not classified as hazardous according to the criteria of SWA. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

Signal Word: NONE. Not hazardous.

Hazard Statement: NONE. Not hazardous.

Precautionary Statement: P102: Keep out of reach of children.
P235: Keep cool.
P262: Do not get in eyes, on skin, or on clothing.
P281: Use personal protective equipment as required.

SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion (%)</u>
Folic Acid	59-30-3	15mg/mL
Cyanocobalamin	68-19-9	0.55mg/mL
Nicotinamide	98-92-0	150mg/mL
Other non hazardous ingredients	secret	to 100

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

SECTION 4 FIRST AID MEASURES

Description of necessary measures according to routes of exposure.

Swallowed:

Necessary First Aid Measures -

If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Symptoms Caused by Exposure -

Significant oral exposure is considered to be unlikely. However, this product may be mildly irritating to mucous membranes but is unlikely to cause anything more than mild transient discomfort.

Medical Attention and Special Treatment -

If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Eye:

Necessary First Aid Measures -

No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Take special care if exposed person is wearing contact lenses.

Symptoms Caused by Exposure -

This product may be mildly irritating to eyes, but is unlikely to cause anything more than mild discomfort which should disappear once product is removed.

Medical Attention and Special Treatment -

Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

SAFETY DATA SHEET

VALUE PLUS FOLIC B12 INJECTION

Skin:	
<i>Necessary First Aid Measures -</i>	Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.
<i>Symptoms Caused by Exposure -</i>	Available data indicates that this product is not harmful. It should present no hazards in normal use. In addition product is unlikely to cause any discomfort in normal use.
<i>Medical Attention and Special Treatment -</i>	No data available
Inhaled:	
<i>Necessary First Aid Measures -</i>	First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
<i>Symptoms Caused by Exposure -</i>	Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.
<i>Medical Attention and Special Treatment -</i>	No data available
Self Injection:	Accidental self injection may lead to an inflammatory response. Medical advice should be sought on the management of deep injections, particularly those near a joint or associated with bruising. If possible the application of gentle squeezing pressure with absorbent material (e.g. facial tissues) at the injection site will swab up unabsorbed vaccine. Strong squeezing of the site should be avoided. The damaged area should be thoroughly cleansed and a topical antiseptic applied. Check your tetanus immunisation status.

SECTION 5 FIRE FIGHTING MEASURES

Suitable Extinguishing Equipment:	Not combustible. Use extinguishing media suited to burning materials.
Specific Hazards Arising from the Chemical:	The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Fire decomposition products from this product are not expected to be hazardous or harmful.

Special Protective Precautions and Equipment for Fire Fighters: No data available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. No special protective clothing is normally necessary because of this product. However it is good practice to wear latex gloves when handling injectables.
Environmental Precautions:	In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.
Methods and Materials for Containment and Clean Up:	For minor spills, refer to product label for specific instructions.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling:	Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.
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SAFETY DATA SHEET

VALUE PLUS FOLIC B12 INJECTION

**Conditions for Safe Storage
(Including Any Incompatibles):**

Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**National Exposure Standards:**

The following Australian Standards will provide general advice regarding safety clothing and equipment:
Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Biological Monitoring:

No data available

Control Banding:

No data available

Engineering Controls:

No data available

Individual Protection Measures:*Eye and Face Protection -*

Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.

Skin Protection -

The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely.

Respiratory Protection -

No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised.

*Thermal Hazards -***SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****Appearance:**

Clear, red coloured solution.

Odour:

No data re odour.

Odour Threshold:

No data

pH:

6.8-7.8

Melting Point:

No data

Boiling Point:

Approximately 100°C at 100kPa.

Flash Point:

Does not burn.

Evaporation Rate:

As for water.

Flammability:

Does not burn.

Flammability or Explosive Limits:

Does not burn.

Vapour Pressure:

2.37 kPa at 20°C (water vapour pressure).

Vapour Density:

As for water.

Relative Density:

No data

Solubility:

Completely soluble in water.

Partition coefficient: n-octanol/water:

No data

Auto Ignition Temperature:

Does not burn.

Decomposition Temperature:

No data

Viscosity:

No data

SECTION 10 STABILITY AND REACTIVITY**Reactivity:**

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

SAFETY DATA SHEET

VALUE PLUS FOLIC B12 INJECTION

Chemical Stability:	No data available
Possibility of Hazardous Reactions:	No data available
Conditions to Avoid:	Protect this product from light. Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight.
Incompatible Materials:	Acids, bases, oxidising agents.
Hazardous Decomposition Products:	Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally, hydrogen cyanide gas in reducing atmospheres. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin Corrosion/Irritation:	No data available
Serious Eye Damage/Irritation:	No data available
Respiratory or Skin Sensitisation:	No data available
Germ Cell Mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive Toxicity:	No data available
Specific Target Organ Toxicity – Single Exposure:	There is no data to hand indicating any particular target organs.
Specific Target Organ Toxicity – Repeated Exposure:	There is no data to hand indicating any particular target organs.
Aspiration Hazard:	No data available
Possible Routes of Exposure:	No data available
Early Onset Symptoms Related to Exposure:	No data available
Delayed Health Effects From Exposure:	No data available
Exposure Levels and Health Effects:	No data available
Interactive Effects:	No data available
Other Information:	No data available

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:	Insufficient data to be sure of status. Expected to not be an environmental hazard.
Persistence and Degradability:	No data available
Bioaccumulative Potential:	No data available
Mobility in Soil:	No data available
Other Adverse Effects:	No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Containers and Methods:	Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. Discarded needles should immediately be placed in a designated and appropriately labelled sharps container. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.
Physical/Chemical Properties that May affect Disposal Options:	No data available
Effects of Sewerage Disposal:	No data available
Special Precautions for Incineration/Landfill:	No data available

SAFETY DATA SHEET

VALUE PLUS FOLIC B12 INJECTION

SECTION 14 TRANSPORT INFORMATION

UN Number:	This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.
Shipping Name:	No data available
Transport Hazard Class:	No data available
Packing Group:	No data available
Environmental Hazards for Transport Purposes:	No data available
Precaution for User:	No data available
Additional Information:	No data available
HAZCHEM or Code:	No data available

SECTION 15 REGULATORY INFORMATION

Subject to the Following International Agreements: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

APVMA Number: 58621

SECTION 16 OTHER INFORMATION

Date of Preparation / Revision: December 2014

Changes Made During Revision:

This SDS is prepared in accordance to the "Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice December 2011".

This SDS contains only safety related information. For other data see product literature.

Acronyms/Abbreviations:

<	less than
>	greater than
AICS	Australian Inventory of Chemical Substances
ADG	Australian Dangerous Goods Code
CAS	Chemical Abstracts Service (Registry Number)
CO2	Carbon Dioxide
COD	Chemical Oxygen Demand
ERMA	Environmental Risk Management Authority
HSNO	Hazardous Substance and New Organism
IATA	International Air Transport Association
IDLH	Immediately Dangerous to Life and Health
IMDG	International Maritime Dangerous Goods Code
LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50	LD stands for "Lethal Dose". LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals
Misc	miscible
N/A	Not Applicable
NIOSH	National Institute for Occupational Safety and Health
NOHSC	National Occupational Health and Safety Commission
OECD	Organization for Economic Co-operation and Development
PEL	Permissible Exposure Limit
RCP	Reciprocal Calculation Procedure
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average
UN	United Nations (number)
cm2	square centimetres

SAFETY DATA SHEET

VALUE PLUS FOLIC B12 INJECTION

deg C (°C)	degrees Celsius
g	gram
g/cm³	grams per cubic centimetre
g/l	grams per litre
immiscible	liquids are insoluble in each other
kg	kilogram
kg/m³	kilograms per cubic metre
ltr	Litre
m³	cubic metre
mPa.s	milli Pascal per second
mbar	millibar
mg	milligram
mg/24H	milligrams per 24 hours
mg/kg	milligrams per kilogram
mg/m³	milligrams per cubic metre
miscible	liquids form one homogeneous liquid phase regardless of the amount of either component present
mm	millimetre
ppb	parts per billion
ppm	parts per million
ppm/2h	parts per million per 2 hours
ppm/6h	parts per million per 6 hours
tne	tonne
ug/24H	micrograms per 24 hours
wt	weight

This SDS summarises Zoo Pets Pty Ltd best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however Zoo Pets expressly disclaims that the SDS is a representation or guarantee of the chemical specifications for the substance. Each user should read the SDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.

END OF SDS