

SAFETY DATA SHEET

SECTION 1 IDENTIFICATION

Product Name: VALUE PLUS METHIONINE TABLETS
Company Product Code: VAL 4915
Other Names: METHIONINE
Pack Size/Container Type: 500 tablets packed in a recyclable, white HDPE bottle/drum
Recommended Use/Restrictions: May be used as a urinary acidifier for dogs and cats.
Company: Zoo Pets Pty Ltd
Address: 4/3 Terrace Road, North Richmond NSW 2754
PO Box 506, Cherrybrook NSW 2126
W: www.valueplus.net.au E: info@zoopets.com.au
Telephone Number: +61 (0)2 4571 4211 (Mon-Fri 9:00am – 5:00pm)
Fax Number: +61 (0)2 4571 4928
Emergency Telephone Number: Poisons Information Centre 13 11 26

SECTION 2 HAZARDS IDENTIFICATION

Hazard Classification: This product is not dangerous goods under the Australian Dangerous Goods Code and is classified as not hazardous according to the classification criteria of NOHSC:1008(2004), Approved Criteria For Classifying Hazardous Substances and the National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)] Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

Signal Word:

Hazard Statement:

Precautionary Statement:

Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

Other hazards

None

SECTION 3 COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENTS

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Proportion (%)</u> | <u>EINECS/ELINC</u> |
|--|-------------------|-----------------------|---------------------|
| DL-Methionine | 59-51-8 | >78% | 200-432-1 |
| Proprietary, inert, non-hazardous tablet ingredients | Not applicable | >22% | |

The excipients are as follows:

- Silica-colloidal anhydrous
- Glucose DC
- Sucralose
- Magnesium stearate
- Citric Acid Anhydrous

SECTION 4 FIRST AID MEASURES

Description of necessary measures according to routes of exposure.

Skin: Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person.

Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately.

Get medical aid if cough or other symptoms appear.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

SAFETY DATA SHEET

SECTION 5 FIRE FIGHTING MEASURES

Flash Point: 284 deg C (543.20 deg F)
Autoignition Temp: Not available.
Explosion Limits, Lower: Not available.
Upper: Not available.
NFPA Rating: (estimated) Health: 1; Flammability: 1; Instability: 0

Suitable Extinguishing Equipment: Use water spray, dry chemical, carbon dioxide, or chemical foam.
Specific Hazards Arising from the Chemical: Dust from this material can form explosive organic dust cloud.
Precautions and Equipment for Fire Fighters: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:
Environmental Precautions:

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Methods and Materials for Containment and Clean Up:
Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing dust.
Conditions for Safe Storage (Including Any Incompatibles): Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Refrigeration has been recommended.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards: OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149
Biological Monitoring: None listed.
Control Banding: None listed.
Engineering Controls: Good general ventilation should be sufficient to control airborne levels.
Individual Protection Measures:
Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.

SAFETY DATA SHEET

Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Thermal Hazards: Flash Point: 284 deg C (543.20 deg F)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Appearance: White tablet
Odor: Faint odor
pH: 5.6-6.1 (1% aq soln)
Vapor Pressure: Not available.
Vapor Density: Not available.
Evaporation Rate: Not available.
Viscosity: Not available.
Boiling Point: Not available.
Freezing/Melting Point: 276 - 279 deg C
Decomposition Temperature: 276 deg C
Solubility: 56.6 g/L @ 25 癡
Specific Gravity/Density: Not available.
Molecular Formula: C5H11NO2S
Molecular Weight: 149.21

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Dust generation, excess heat, prolonged exposure to air.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.
Hazardous Polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 59-51-8: PD0457000
LD50/LC50: CAS# 59-51-8:
Carcinogenicity: CAS# 59-51-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Epidemiology: No data available.
Teratogenicity: Embryo or Fetus: Fetotoxicity. Specific Developmental
Abnormalities: Musculoskeletal.
Reproductive Effects: Experimental reproductive effects have been observed.
Mutagenicity: No data available.
Neurotoxicity: No data available.
Other Studies: No data available.

SECTION 12 ECOLOGICAL INFORMATION

No information available.
Ecotoxicity: None listed.
Persistence and Degradability: None listed.
Bioaccumulative Potential: None listed.
Mobility in Soil: None listed.
Other Adverse Effects: None listed.

SECTION 13 DISPOSAL CONSIDERATIONS

SAFETY DATA SHEET

RCRA P-Series: None listed.
RCRA U-Series: None listed.
Disposal Containers and Methods: Empty containers may be wrapped in paper and placed in garbage.
Physical/Chemical Properties that May affect Disposal Options:
Effects of Sewerage Disposal:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Special Precautions for Incineration/Landfill:

Do not incinerate empty containers or unused product.
Contact local municipal authority before disposing of unused product in local authority landfill.

SECTION 14 TRANSPORT INFORMATION

US DOT Canada TDG

UN Number:
Shipping Name: Not Regulated
Transport Hazard Class: Not Regulated
Packing Group: None listed
Environmental Hazards for Transport Purposes: None listed
Precaution for User: None listed
Additional Information: None listed
HAZCHEM or Code: None listed

SECTION 15 REGULATORY INFORMATION

Subject to the Following International Agreements:

APVMA Number:

US FEDERAL

TSCA

CAS# 59-51-8 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 59-51-8 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level:

SAFETY DATA SHEET

None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.
Risk Phrases: Not available.
Safety Phrases: S 24/25 Avoid contact with skin and eyes.
WGK (Water Danger/Protection) CAS# 59-51-8: 0
Canada - DSL/NDSL CAS# 59-51-8 is listed on Canada's DSL List.
Canada – WHMIS This product has a WHMIS classification of Not controlled.
 This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List Not available.

SECTION 16 OTHER INFORMATION

Date of Preparation / Revision: MSDS Creation Date: 2017-01-20
Revision #2 Date: 2017-01-25

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 |
| 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 |

SAFETY DATA SHEET

| | |
|-------------------------|--|
| 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 Pty Ltd 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