

# SAFETY DATA SHEET



## 1. Identification

<b>Product identifier</b>	<b>VetScan Reagent Rotor</b>
<b>Other means of identification</b>	
<b>Synonyms</b>	500-1023, 500-0023 Large Animal Profile * 500-1026, 500-0026 Prep Profile II * 500-1037, 500-0037 T4 Cholesterol Test * 500-1038, 500-0038 Comprehensive Diagnostic Profile * 500-1040, 500-0040 Mammalian Liver Profile * 500-1041, 500-0041 Avian / Reptilian Profile Plus * 500-1042, 500-0042 Critical Care Plus * 500-1043, 500-0043 Equine Profile Plus * 500-1044, 500-0044 Canine Wellness Profile * 500-1045, 500-0045 Kidney Profile Plus * 500-1046, 500-0046 Electrolyte Plus * 500-1047, 500-0047 Preventive Care Profile Plus * 500-1048, 500-0048 <b>Companion Animal Profile</b> * 500-1049, 500-0049 Phenobarbital Profile

### Recommended use of the chemical and restrictions on use

<b>Recommended use</b>	Veterinary product used as diagnostic aid
<b>Restrictions on use</b>	Not for human use

### Details of manufacturer or importer

<b>Company Name (AU)</b>	Zoetis Australia Pty Ltd ABN 94 156 476 425 Level 6, 5 Rider Boulevard Rhodes NSW 2138 AUSTRALIA
<b>Tel</b>	1800 814 883
<b>Fax</b>	(02) 8876 0444
<b>Email</b>	productsupport.au@zoetis.com
<b>Emergency Phone</b>	1800 814 883 (all hours)
<b>Police and Fire Brigade</b>	Dial 000
<b>If ineffective</b>	Dial Poisons Information Centre (13 1126 from anywhere in Australia)

## 2. Hazard(s) identification

### Classification of the hazardous chemical

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>Environmental hazards</b>	Not classified.

### Label elements, including precautionary statements

<b>Hazard symbol(s)</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement(s)</b>	The mixture does not meet the criteria for classification.
<b>Precautionary statement(s)</b>	
<b>Prevention</b>	Observe good industrial hygiene practices.
<b>Response</b>	Wash hands after handling.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.

**Other hazards which do not result in classification** None known.

**Supplemental information** Plastic article: To avoid risks to human health and the environment, comply with the instructions for use. With sample collection: Handle as potentially infectious.

## 3. Composition/information on ingredients

### Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients (%)
Freeze-dried reagent beads	Mixture	
Copper Sulfate, Pentahydrate	7758-99-8	0 - <1 %
Diluent	Mixture	<0.5 ml
Sodium azide	26628-22-8	0 - <1 %

#### 4. First-aid measures

##### Description of necessary first aid measures

<b>Inhalation</b>	No specific treatment is necessary since this material is not likely to be hazardous by inhalation. IF exposed or concerned: Get medical advice/attention.
<b>Skin contact</b>	No adverse effects due to skin contact are expected. IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Get medical advice/attention if you feel unwell.
<b>Eye contact</b>	No specific first aid measures noted. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue to rinse for at least 15 minutes. Remove contact lenses, if present and easy to do.
<b>Ingestion</b>	Not likely, due to the form of the product. If swallowed, do NOT induce vomiting. Rinse mouth. Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

**Personal protection for first-aid responders** IF exposed or concerned: Get medical advice/attention. For personal protection, see section 8 of the SDS. You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

**Symptoms caused by exposure** Not likely, due to the form of the product.

**Medical attention and special treatment** Treat symptomatically.

#### 5. Fire-fighting measures

##### Extinguishing media

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical** Material will burn in a fire. Fire may produce irritating, corrosive and/or toxic gases. Vapours may ignite.

**Special protective equipment and precautions for fire fighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions** Use water spray to cool unopened containers.

**Hazchem code** None.

**General fire hazards** No unusual fire or explosion hazards noted. Material will burn in a fire.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. Accidental release measures

##### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Keep unnecessary personnel away.

**For emergency responders** Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

**Methods and materials for containment and cleaning up** Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly. Wear appropriate protective equipment and clothing during clean-up. The standard biosafety practices for handling infectious materials should be followed.

## 7. Handling and storage

### Precautions for safe handling

Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment. With sample collection: The standard biosafety practices for handling infectious materials should be followed.

### Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place. @ 2 - 8°C (36 - 46°F). Protect from sunlight. Keep away from heat, sparks and open flame. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls and personal protection

**Control parameters** Follow standard monitoring procedures.

### Occupational exposure limits

#### Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value
Sodium azide (CAS 26628-22-8)	Ceiling	0.3 mg/m <sup>3</sup>
		0.11 ppm

#### Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value
Sodium azide (CAS 26628-22-8)	TWA	0.3 mg/m <sup>3</sup>
		0.11 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Copper Sulfate, Pentahydrate (CAS 7758-99-8)	TWA	1 mg/m <sup>3</sup>	Dust and mist.
		0.2 mg/m <sup>3</sup>	Fume.
Sodium azide (CAS 26628-22-8)	Ceiling	0.29 mg/m <sup>3</sup>	
		0.11 ppm	

#### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Sodium azide (CAS 26628-22-8)	STEL	0.3 mg/m <sup>3</sup>
	TWA	0.1 mg/m <sup>3</sup>

#### Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Copper Sulfate, Pentahydrate (CAS 7758-99-8)	TWA	0.01 mg/m <sup>3</sup>	Respirable fraction.
		0.2 mg/m <sup>3</sup>	Inhalable fraction.

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Appropriate engineering controls

General ventilation normally adequate.

### Individual protection measures, for example personal protective equipment (PPE)

**Eye/face protection** Wear safety glasses with side shields.

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.

**Respiratory protection** No personal respiratory protective equipment normally required.  
**Thermal hazards** Not applicable.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** Plastic article.

**Physical state** Solid.

**Form** Solid.

**Colour** Clear.

**Odour** Odourless.

**Odour threshold** Not available.

**pH** Not available.

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapour pressure** Not available.

**Vapour density** Not available.

**Relative density** Not available.

**Solubility(ies)**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Other physical and chemical parameters**

**Explosive properties** Not explosive.

**Oxidising properties** Not oxidising.

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Contact with incompatible materials. High temperatures. Sunlight. Keep away from heat, sparks and open flame.

**Incompatible materials** Strong oxidising agents.

**Hazardous decomposition products** Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Carbon oxides. Nitrogen compounds.

## 11. Toxicological information

### Information on possible routes of exposure

<b>Inhalation</b>	No adverse effects due to inhalation are expected.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Health injuries are not known or expected under normal use.
<b>Ingestion</b>	Health injuries are not known or expected under normal use.

**Symptoms related to exposure** Not likely, due to the form of the product.

**Acute toxicity** Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components	Species	Test Results
Copper Sulfate, Pentahydrate (CAS 7758-99-8)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg
<b>Oral</b>		
LD50	Rat	300 mg/kg
Sodium azide (CAS 26628-22-8)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	20 mg/kg
<b>Oral</b>		
LD50	Rat	27 mg/kg
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met. Health injuries are not known or expected under normal use.	
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met. Health injuries are not known or expected under normal use.	
<b>Respiratory or skin sensitisation</b>		
<b>Respiratory sensitisation</b>	Based on available data, the classification criteria are not met.	
<b>Skin sensitisation</b>	Based on available data, the classification criteria are not met.	
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.	
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.	
<b>ACGIH Carcinogens</b>		
Sodium azide (CAS 26628-22-8)	A4 Not classifiable as a human carcinogen.	
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met. This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met. Not an aspiration hazard.	
<b>Other information</b>	With sample collection: Handle as potentially infectious.	

## 12. Ecological information

**Ecotoxicity** Based on available data, the classification criteria are not met for hazardous to the aquatic environment. Contains a substance which causes risk of hazardous effects to the environment. Avoid release to the environment.

Components	Species	Test Results
Copper Sulfate, Pentahydrate (CAS 7758-99-8)		
<b>Aquatic</b>		
Crustacea	EC50 Daphnia magna (Water Flea)	0.147 - 0.227 mg/l, 48 Hours

Components		Species	Test Results
Fish	LC50	Water flea ( <i>Daphnia magna</i> )	0.0058 - 0.0073 mg/l, 48 hours
		Bluegill ( <i>Lepomis macrochirus</i> )	0.66 - 1.15 mg/l, 96 hours
		<i>Lepomis macrochirus</i> (Bluegill Sunfish)	0.66 - 1.8 mg/l, 96 Hours
Sodium azide (CAS 26628-22-8)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	2.8 - 6.2 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	0.68 mg/l, 96 hours
		<i>Lepomis macrochirus</i> (Bluegill Sunfish)	0.7 mg/l
		<i>Oncorhynchus mykiss</i> (rainbow trout)	0.8 mg/l
		<i>Pimephales promelas</i> (Fathead Minnow)	5.46 mg/l

**Persistence and degradability** Not readily biodegradable.

**Bioaccumulative potential** No data available for this product.

**Mobility in soil** No data available for this product.

**Other adverse effects** Components of this product have been identified as having potential environmental concerns. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment.

### 13. Disposal considerations

**Disposal methods** Handle as potentially infectious. Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

**ADG**

Not regulated as dangerous goods.

**RID**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### 15. Regulatory information

**Safety, health and environmental regulations**

**National regulations** This Safety Data Sheet was prepared in accordance with the Australia Model Code of Practice for the preparation of safety data sheets for hazardous chemicals.

**Australia Medicines & Poisons Appendix A**

Copper Sulfate, Pentahydrate (CAS 7758-99-8)

**Australia Medicines & Poisons Appendix B**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix D**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix E**

Copper Sulfate, Pentahydrate (CAS 7758-99-8)

**Australia Medicines & Poisons Appendix F**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix G**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix H**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix I**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix J**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix K**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 10**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 2**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 3**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 4**

Copper Sulfate, Pentahydrate (CAS 7758-99-8)

**Australia Medicines & Poisons Schedule 5**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 6**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 7**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 8**

Poisons schedule number not allocated.

**Australia Medicines & Poisons Schedule 9**

Poisons schedule number not allocated.

**Australia National Pollutant Inventory (NPI): Threshold quantity**

Copper Sulfate, Pentahydrate (CAS 7758-99-8)

10 TONNES/YR Threshold Category: 1

**High Volume Industrial Chemicals (HVIC)**

Copper Sulfate, Pentahydrate (CAS 7758-99-8)

10000 - 99999 TONNES See the regulation for additional information.

**Importation of Ozone Depleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)**

Not listed.

**National Pollutant Inventory (NPI) substance reporting list**

Copper Sulfate, Pentahydrate (CAS 7758-99-8)

2000 TONNES/YR Threshold Category: 2B

**Prohibited Carcinogenic Substances**

Not regulated.

**Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)**

Not listed.

**Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)**

Not listed.

**Restricted Carcinogenic Substances**

Not regulated.

**International regulations**

**Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Kyoto Protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Not applicable.

**International Inventories**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information****Issue date**

26-September-2019

**Disclaimer**

Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time. The information in the sheet was written based on the best knowledge and experience currently available.