

SAFETY DATA SHEET



1. Identification

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|---|---|
| Product identifier | VetScan Reagent Rotor |
| Other means of identification | |
| Synonyms | 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 * 500-1045, 500-0045 Kidney Profile Plus * 500-1046, 500-0046 Electrolyte Plus * 500-1047, 500-0047 Preventive Care Profile Plus * 500-1049, 500-0049 Phenobarbital Profile |
| Recommended use | Veterinary product used as diagnostic aid |
| Recommended restrictions | Not for human use |
| Manufacturer/Importer/Supplier/Distributor information | |
| Supplier (USA): | Abaxis, Inc. (now part of Zoetis) 3240 Whipple Road, Union City, CA 94587 |
| Phone number: | +1-510-675-6500 |
| Customer support: | +1-800-822-2947 (abaxis@abaxis.com) |
| Supplier (EU): | ABAXIS Europe GmbH (now part of Zoetis) Bunsenstr. 9-11, 64347 Griesheim, Germany |
| Phone number: | +49 6155 780 21 0 |
| Customer support: | +49 6155 780 21 0 (abaxis@abaxis.de) |
| Website: | www.abaxis.com (Abaxis is now part of Zoetis) |
| Company (USA): | Zoetis Inc. 10 Sylvan Way, Parsippany, New Jersey 07054 |
| Rocky Mountain Poison & Drug Center: | 1-866-531-8896 |
| Product and technical support: | 1-888-963-8471 |
| Emergency phone numbers: | United States CHEMTREC 24 hours: 1-800-424-9300 International CHEMTREC 24 hours: +1-703-527-3887 |
| Company (EU): | Zoetis Belgium S.A. Mercuriusstraat 20, 1930 Zaventem, Belgium |
| Emergency phone number: | International CHEMTREC 24 hours: +1-703-527-3887 |
| Website: | www.zoetis.com |
| 2. Hazard(s) identification | |
| Physical hazards | Not classified. |
| Health hazards | Not classified. |
| Environmental hazards | Not classified. |
| OSHA defined hazards | Not classified. |
| Label elements | |
| Hazard symbol | None. |
| Signal word | None. |
| Hazard statement | The mixture does not meet the criteria for classification. |
| Precautionary statement | |
| Prevention | Observe good industrial hygiene practices. |

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| Response | Wash hands after handling. |
| Storage | Store away from incompatible materials. |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. |
| Hazard(s) not otherwise classified (HNOC) | 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

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|------------------------------|--------------------------|------------|----------|
| 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 % |

Composition comments In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

4. First-aid measures

Inhalation No specific treatment is necessary since this material is not likely to be hazardous by inhalation. IF exposed or concerned: Get medical advice/attention.

Skin contact 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.

Eye contact 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.

Ingestion Not likely, due to the form of the product. If swallowed, do NOT induce vomiting. Rinse mouth. Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed Not likely, due to the form of the product.

Indication of immediate medical attention and special treatment needed Treat symptomatically.

General information IF exposed or concerned: Get medical advice/attention. For personal protection, see section 8 of the SDS. 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.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

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. Vapors may ignite.

Special protective equipment and precautions for firefighters 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.

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

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

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.

Environmental precautions

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

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/personal protection**Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. ACGIH Threshold Limit Values

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

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value | Form |
|--|---------|-----------------------|----------------|
| Copper Sulfate, Pentahydrate (CAS 7758-99-8) | TWA | 1 mg/m ³ | Dust and mist. |
| | | 0.1 mg/m ³ | Fume. |
| SODIUM AZIDE (CAS 26628-22-8) | Ceiling | 0.3 mg/m ³ | |
| | | 0.1 ppm | |

Biological limit values

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

Exposure guidelines**US - California OELs: Skin designation**

SODIUM AZIDE (CAS 26628-22-8) Can be absorbed through the skin.

US - Tennessee OELs: Skin designation

SODIUM AZIDE (CAS 26628-22-8) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

SODIUM AZIDE (CAS 26628-22-8) Can be absorbed through the skin.

Control banding approach

Not available.

Appropriate engineering controls

General ventilation normally adequate.

Individual protection measures, such as personal protective equipment**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.

General hygiene considerations

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.

Color Clear.

Odor Odorless.

Odor 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.

Vapor pressure Not available.

Vapor 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 information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

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 oxidizing 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 likely routes of exposure**

Inhalation No adverse effects due to inhalation are expected.

Skin contact No adverse effects due to skin contact are expected.

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|---|---|
| Eye contact | Health injuries are not known or expected under normal use. |
| Ingestion | Health injuries are not known or expected under normal use. |
| Symptoms related to the physical, chemical and toxicological characteristics | Not likely, due to the form of the product. |

Information on toxicological effects

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) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rat | > 2000 mg/kg |
| Oral | | |
| LD50 | Rat | 300 mg/kg |
| SODIUM AZIDE (CAS 26628-22-8) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | 27 mg/kg |

Skin corrosion/irritation Based on available data, the classification criteria are not met. Health injuries are not known or expected under normal use.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met. Health injuries are not known or expected under normal use.

Respiratory or skin sensitization

Respiratory sensitization Based on available data, the classification criteria are not met.

Skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Based on available data, the classification criteria are not met. This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met. Not an aspiration hazard.

Further information 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) | | |
| Aquatic | | |
| 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) | | | |
| Aquatic | | | |
| 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>Oncorhynchus mykiss</i> (Rainbow Trout) | 0.8 mg/L, 96 hours |
| | | <i>Pimephales promelas</i> (Fathead Minnow) | 5.46 mg/L, 96 hours |

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| 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

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| Disposal instructions | 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. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| US RCRA Hazardous Waste P List: Reference | |
| SODIUM AZIDE (CAS 26628-22-8) | P105 |
| Waste from residues / unused products | 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

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|---|-----------------------------------|
| DOT | 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

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| US federal regulations | This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
| TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) | |
| Not regulated. | |
| CERCLA Hazardous Substance List (40 CFR 302.4) | |
| SODIUM AZIDE (CAS 26628-22-8) | Listed. |

SARA 304 Emergency release notification

SODIUM AZIDE (CAS 26628-22-8)

1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**SARA 302 Extremely hazardous substance**

| Chemical name | CAS number | Reportable quantity (pounds) | Threshold planning quantity (pounds) | Threshold planning quantity, lower value (pounds) | Threshold planning quantity, upper value (pounds) |
|---------------|------------|------------------------------|--------------------------------------|---|---|
| SODIUM AZIDE | 26628-22-8 | 1000 | 500 | | |

SARA 311/312 Hazardous chemical No**SARA 313 (TRI reporting)**

Not regulated.

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.**US state regulations****California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| 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, including date of preparation or last revision**Issue date** 09-26-2019**Revision date** 04-02-2020**Version #** 03**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.

