

**SAFETY DATA SHEET****1 IDENTIFICATION****GHS Product Identifier**

VETSCAN SA Rinse B

**Other means of identification**

Abaxis PN: 1550-9101

**Recommended use of the chemical and restriction on use**

A cleaning agent for use with the Abaxis VetScan SA analyzer

**Supplier's details**

|                        |  |  |
|------------------------|--|--|
| Company Information:   | Abaxis, Inc.<br>3240 Whipple Road<br>Union City, CA 94587, USA<br>Tel: +1-510-675-6500<br>Fax: +1-510-441-6150 | ABAXIS Europe GmbH<br>Bunsenstr. 9-11<br>64347 Griesheim, Germany<br>Tel: +49 6155 780 21 0 (EU)<br>Fax: +49 6155 780 21 111 |
| Customer Support:      | +1-800-822-2947 (US),<br>abaxis@abaxis.com   | Tel: +49 6155 780 21 0 (EU)<br>abaxis@abaxis.de  |
| Emergency phone number | +1-800-822-2947 (US)   | +49 6155 780 21 0 (EU)   |

This number is available only during business hours (9:00am to 5:00pm UTC)

**2 HAZARD(S) IDENTIFICATION****Classification of the substance or mixture:** liquid mixture**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

- Not a hazardous substance or mixture

**For the full text of the H-Statements mentioned in this Section, see Section 16.****GHS label elements**

- Wash skin thoroughly after handling.

- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell. Rinse mouth.
- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed or concerned: Get medical advice/attention.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

| Description                                   | CAS Number | EINECS Number | %         | Note (at 100% concentration)  |
|---|------------|---------------|-----------|---|
| Boric Acid                                    | 10043-35-3 |               | 0 - 0.10  | Reproductive toxicity (Category 1), H360  |
| Sodium Tetraborate Decahydrate (Borax)        | 1303-96-4  |               | 0 - 0.03  | Reproductive toxicity (Category 2), H361  |
| Hexahydro-1,3,5-tris(hydroxyethyl)-s-triazine | 4719-04-4  |               | 0 - 0.20  | Flammable liquids (Category 4) H227<br>Acute toxicity, oral , acute toxicity, dermal and acute toxicity, inhalation(Category 4)<br>H302+H312+H332<br>Skin corrosion / irritation (Category 2) H315<br>Serious eye damage/eye irritation(Category 2A )<br>H319<br>Specific target organ toxicity, single exposure(Category 3) H335 |
| Other non-hazardous ingredients               |            |               | 0 - 99.67 | Not applicable  |

### 4 FIRST-AID MEASURES

**In case of eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

**In case of inhalation:** Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

**In case of ingestion:** Do not induce vomiting. Call a physician or Poison Control Center immediately.

### 5 FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

#### Specific hazards arising from the chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

#### Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing.

**Environmental Precautions** None

**Methods for Containment and Clean Up** Sweep up or vacuum up spillage and collect in suitable container for disposal.

## 7 HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Wear personal protective equipment. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

| Component                        | Alberta   | British Columbia   | Ontario TWA/EV  | Quebec  | ACGIH TLV   | OSHA PEL | NIOSH IDLH |
|----------------------------------|-----------|--|---|---|---|----------|------------|
| Boric acid (H3BO3)               |           | TWA: 2 mg/m <sup>3</sup><br>STEL: 6 mg/m <sup>3</sup>                                  | TWA: 2 mg/m <sup>3</sup><br>STEL: 6 mg/m <sup>3</sup> |   | TWA: 2 mg/m <sup>3</sup><br>STEL: 6 mg/m <sup>3</sup> |          |            |
| Component                        | CAS-No.   | Value  | Control parameters                                    | Basis   |   |          |            |
| Disodium tetraborate decahydrate | 1303-96-4 | TWA  | 2.000000 mg/m <sup>3</sup>                            | USA. ACGIH Threshold Limit Values (TLV)   |   |          |            |
|                                  | Remarks   | Upper Respiratory Tract irritation<br>Not classifiable as a human carcinogen<br>varies |   |   |   |          |            |
|                                  |           | STEL   | 6.000000 mg/m <sup>3</sup>                            | USA. ACGIH Threshold Limit Values (TLV)   |   |          |            |
|                                  |           | Upper Respiratory Tract irritation<br>Not classifiable as a human carcinogen<br>varies |   |   |   |          |            |
|                                  |           | TWA  | 5.000000 mg/m <sup>3</sup>                            | USA. NIOSH Recommended Exposure Limits  |   |          |            |
|                                  |           | TWA  | 2.000000 mg/m <sup>3</sup>                            | USA. ACGIH Threshold Limit Values (TLV)   |   |          |            |
|                                  |           | Upper Respiratory Tract irritation<br>Not classifiable as a human carcinogen<br>varies |   |   |   |          |            |
|                                  |           | STEL   | 6.000000 mg/m <sup>3</sup>                            | USA. ACGIH Threshold Limit Values (TLV)   |   |          |            |
|                                  |           | Upper Respiratory Tract irritation<br>Not classifiable as a human carcinogen<br>varies |   |   |   |          |            |
|                                  |           | TWA  | 2.000000 mg/m <sup>3</sup>                            | USA. ACGIH Threshold Limit Values (TLV)   |   |          |            |
|                                  |           | Upper Respiratory Tract irritation<br>Not classifiable as a human carcinogen<br>varies |   |   |   |          |            |
|                                  |           | STEL   | 6.000000 mg/m <sup>3</sup>                            | USA. ACGIH Threshold Limit Values (TLV)   |   |          |            |
|                                  |           | Upper Respiratory Tract irritation<br>Not classifiable as a human carcinogen<br>varies |   |   |   |          |            |
|                                  |           | TWA  | 2 mg/m <sup>3</sup>                                   | USA. ACGIH Threshold Limit Values (TLV)   |   |          |            |
|                                  |           | Upper Respiratory Tract irritation<br>Not classifiable as a human carcinogen<br>varies |   |   |   |          |            |
|                                  |           | STEL   | 6 mg/m <sup>3</sup>                                   | USA. ACGIH Threshold Limit Values (TLV)   |   |          |            |
|                                  |           | Upper Respiratory Tract irritation<br>Not classifiable as a human carcinogen<br>varies |   |   |   |          |            |
|                                  |           | PEL  | 5 mg/m <sup>3</sup>                                   | California permissible exposure limits for chemical contaminants (Title 8, Article 107) |   |          |            |

## Hexahydro-1,3,5-tris(hydroxyethyl)-s-triazine

No data available

### Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimize release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

### Individual protection measures

#### Personal protective equipment

**Eye Protection** 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.

**Hand Protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

| Glove material                                      | Breakthrough time                    | Glove thickness | Glove comments         |
|---|--------------------------------------|-----------------|------------------------|
| Nitrile rubber<br>Natural rubber<br>Neoprene<br>PVC | See manufacturers<br>recommendations | -               | Splash protection only |

Inspect gloves before use. Observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitization effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.

#### Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified 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. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

**Recommended Filter type:** Particulates filter conforming to EN 143. When RPE is used a face piece Fit Test should be conducted

**Environmental exposure controls** No information available.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

## Physical and chemical properties

Physical state: Liquid mixture

Color: Brown

Odor: Odorless

Odor threshold: N/A

Chemical Properties:

- Melting point: N/A
- Boiling point: 100 (C)
- PH:  $9.00 \pm 0.30$
- Water Solubility: Soluble
- Specific Gravity (Water=1) : 1.01
- Evaporation Rate: N/A

Physical state: Liquid

## 10 STABILITY AND REACTIVITY

### Reactivity

This preparation is not known to be reactive violently.

**Chemical Stability:** This preparation is known to be chemically stable

**Thermal Decomposition:** Will decompose when burned

**Conditions to Avoid:** Prevent aerosol formation. Avoid excessive heat.

**Incompatible Materials:** No data available

**Hazardous Decomposition Products:** No harmful decomposition products known

**Storage Conditions:** Avoid excessive heat, direct light, and high humidity

## 11 TOXICOLOGICAL INFORMATION

### Toxicological (health) effects

No information was found on specific symptoms. The toxicological properties of this preparation have not been fully investigated. Below table lists the chemicals contained in the control and their toxicology information:

| Ingredient | CAS No.    | %        | Toxicological Information  |
|------------|------------|----------|--|
| Boric Acid | 10043-35-3 | 0 - 0.10 | <b>Reproductive Effects</b><br>Adverse reproductive effects have occurred in humans.<br><b>Developmental Effects</b> |

|   |           |          |  |
|---|-----------|----------|--|
|   |           |          | May cause harm to the unborn child. Developmental effects have occurred in experimental animals.<br><b>Teratogenicity</b><br>Teratogenic effects have occurred in experimental animals.  |
| Sodium Tetraborate Decahydrate (Borax)        | 1303-96-4 | 0 - 0.03 | <b>Acute toxicity</b><br>LD50 Oral - Rat - 4,500 - 5,000 mg/kg<br>LC50 Inhalation - Rat - 4 h - > 2.04 mg/l (OECD Test Guideline 403)<br>LD50 Dermal - Rabbit - 10,000 mg/kg<br><b>Serious eye damage/eye irritation</b><br>Eyes - Rabbit<br>Result: Mild eye irritation<br><b>Reproductive toxicity</b><br>Fetotoxicity - Suspected human reproductive toxicant |
| Hexahydro-1,3,5-tris(hydroxyethyl)-s-triazine | 4719-04-4 | 0 - 0.20 | <b>Skin corrosion/irritation</b><br>Irritant for skin and mucous membranes<br><b>Serious eye Damage/irritation</b><br>Irritant effect  |

## 12 ECOLOGICAL INFORMATION

### Toxicity

| Ingredient                                    | CAS No.    | %        | Eco-toxicological Information   |
|---|------------|----------|---|
| Boric Acid                                    | 10043-35-3 | 0 - 0.10 | No data available   |
| Sodium Tetraborate Decahydrate (Borax)        | 1303-96-4  | 0 - 0.03 | <b>Toxicity to fish</b> LC50 - Carassius auratus (goldfish) - 178 mg/l - 72 h<br><b>Toxicity to daphnia and other aquatic invertebrates</b><br>EC50 - Daphnia magna (Water flea) - 1,085 - 1,402 mg/l - 48 h<br><b>Toxicity to algae</b> IC50 - Desmodesmus subspicatus (green algae) - 158 mg/l - 96 h |
| Hexahydro-1,3,5-tris(hydroxyethyl)-s-triazine | 4719-04-4  | 0 - 0.20 | No data available   |

## 13 DISPOSAL CONSIDERATIONS

### Disposal methods

Waste Treatment Methods: Check regional waste requirements

Waste Treatment Options: Treatment options approved by local authorities

Sewage Disposal Options: Check with local authorities before discharge to the sewer

Other Disposal Recommendations: Dispose of according to local, state, and national regulatory requirements.

U.S. Waste Classification: Non-RCRA Waste

California Waste Codes: N/A

## 14 TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

## 15 REGULATORY INFORMATION

### Safety, health and environmental regulations specific for the product in question

Safety, health and environmental regulations specific for the product in question

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Chronic Health Hazard

### Massachusetts Right To Know Components

- Disodium tetraborate decahydrate CAS-No. 1303-96-4 Revision Date 2007-03-01

### Pennsylvania Right To Know Components

- Disodium tetraborate decahydrate CAS-No. 1303-96-4 Revision Date 2007-03-01
- Sodium chloride CAS-No. 7647-14-5

### New Jersey Right To Know Components

- Disodium tetraborate decahydrate CAS-No. 1303-96-4 Revision Date 2007-03-01
- Sodium chloride CAS-No. 7647-14-5

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**EU Regulations:** This material safety data sheet conforms to Regulation (EC) No 1272/2008, 1907/ 2006, and other requirements established by the European Union

**National Regulations: Germany:** Water Hazard Class I

**Chemical Safety Assessment:** A Chemical Safety Assessment has not been completed for this product



## **16 OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Abaxis shall not be held liable for any damage resulting from handling or from contact with the above product.

Date of Preparation:     March 22, 2018