

SAFETY DATA SHEET

1 IDENTIFICATION

GHS Product Identifier

VETSCAN SA Rinse A

Other means of identification

Abaxis PN: 1550-9100

Recommended use of the chemical and restriction on use

A cleaning agent for use with the Abaxis VetScan SA analyzer

Supplier's details

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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)

GHS label elements

WARNING



- Causes skin irritation
- Causes serious eye damage
- 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 - 0.050	Reproductive toxicity (Category 1), H360
Sodium Tetraborate Decahydrate (Borax)	1303-96-4		0 - 0.100	Reproductive toxicity (Category 2), H361
Other non-hazardous ingredients			0-99.95	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.

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. Do not get in eyes, on skin, or on clothing. 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/ELV	Quebec	ACGIH TLV	OSHA PEL	NIOSH IDLH
Boric acid (H3BO3)		TWA: 2 mg/m ³ STEL: 6 mg/m ³	TWA: 2 mg/m ³ STEL: 6 mg/m ³		TWA: 2 mg/m ³ STEL: 6 mg/m ³		
Component	CAS-No.	Value	Control parameters	Basis			
Disodium tetraborate decahydrate	1303-96-4	TWA	2.000000 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)			
	Remarks	Upper Respiratory Tract irritation Not classifiable as a human carcinogen varies					
		STEL	6.000000 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)			
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen varies					
		TWA	5.000000 mg/m ³	USA. NIOSH Recommended Exposure Limits			
		TWA	2.000000 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)			
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen varies					
		STEL	6.000000 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)			
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen varies					
		TWA	2.000000 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)			
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen varies					
		STEL	6.000000 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)			
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen varies					
		TWA	2 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)			
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen varies					
		STEL	6 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)			
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen varies					
		PEL	5 mg/m ³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)			

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 Natural rubber Neoprene PVC	See manufacturers 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: 7.60±0.30
- Water Solubility: Soluble
- Specific Gravity (Water=1) : 1.01
- Evaporation Rate: N/A

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 - 0.050	Reproductive Effects Adverse reproductive effects have occurred in humans. Developmental Effects May cause harm to the unborn child. Developmental effects have occurred in experimental animals. Teratogenicity Teratogenic effects have occurred in experimental animals.
Sodium Tetraborate	1303-96-4	0 - 0.100	Acute toxicity

Decahydrate (Borax)	LD50 Oral - Rat - 4,500 - 5,000 mg/kg LC50 Inhalation - Rat - 4 h - > 2.04 mg/l (OECD Test Guideline 403) LD50 Dermal - Rabbit - 10,000 mg/kg Serious eye damage/eye irritation Eyes - Rabbit Result: Mild eye irritation Reproductive toxicity Fetotoxicity Suspected human reproductive toxicant
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12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	CAS No.	%	Eco-toxicological Information
Boric Acid	10043-35-3	0 - 0.050	No data available
Sodium Tetraborate Decahydrate (Borax)	1303-96-4	0 - 0.100	Toxicity to fish LC50 - Carassius auratus (goldfish) - 178 mg/l - 72 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 1,085 - 1,402 mg/l - 48 h Toxicity to algae LC50 - Desmodesmus subspicatus (green algae) - 158 mg/l - 96 h

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

keepNew Jersey Right To Know Components

- Disodium tetraborate decahydrate CAS-No. 1303-96-4 Revision Date 2007-03-01
- p-tertiary-Octylphenoxy polyethyl alcohol CAS-No. 9002-93-1

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