

## SAFETY DATA SHEET

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product name	VET-SAA Calibrator Set
Product code	V-SZ90 G-SZ93
Recommended Use and Restrictions on Use	For Veterinary Research Use Only
Supplier Name:	Eiken Chemical Co., Ltd.
Address:	4-19-9, Taito, Taito-ku, Tokyo 110-8408 JAPAN
Telephone number:	+81-3-5846-3479 (8:45 – 17:30 JST on WEEKDAY)
Telefax number:	+81-3-5846-3490

### Section 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4)

Skin irritation (Category 2)

Skin sensitization (Category 1)

Eye irritation (Category 2)

#### Label Elements

Pictograms



Signal Words

Warning

Hazard Statements

H302

Harmful if swallowed

H315

Causes skin irritation

H317

May cause an allergic skin reaction

H319

Causes serious eye irritation

Precautionary Statements

P261

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264

Wash hands thoroughly after handling.

P270

Do not eat, drink, or smoke when using this product.

P272

Contaminated work clothing should not be allowed out of the workplace.

P280

Wear protective gloves/protective clothing/eye protection/ face protection.

P301 + P312

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P330

Rinse mouth.

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321

Specific treatment.

P332 + P313	If skin irritation occurs: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local disposal regulations.

**Supplemental Hazard Statements** This product contains ProClin 300.  
 $\leq 0.1$  w/v% (not exceeding the cut-off limits of GHS)

**Other Hazards** None

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture	Mixture	
Composition	VET-SAA Calibrator	Freeze-dried product 1mL x 5, 5 concentrations
	Hazard substances	Guanidinium chloride 13.1% (1.4 mol/L) ProClin 300 0.1%
	VET-SAA Lysis buffer	12mL x 1 concentrations
	Hazard substances	Guanidinium chloride 21.5% (2.3 mol/L) ProClin 300 0.1%
Information on Chemical Properties		
Hazardous ingredients (Common names and synonyms)	Guanidinium chloride Guanidine hydrochloride	ProClin 300
Chemical Formula	CH <sub>5</sub> N <sub>3</sub> ·HCl	-
CAS No.	50-01-1	55965-84-9
Other identifiers	EC No.: 200-002-3	-

### Section 4: FIRST-AID MEASURES

Eye Contact	IF IN EYES: Rinse with plenty of water immediately for at least 15 minutes. Consult a physician.
Skin Contact	IF IN SKIN: Wash with plenty of water. Consult a physician.
Ingestion	IF SWALLOWED: Wash your mouth with plenty of water. Consult a physician.
Anticipated Acute Effects and Delayed Effects	No data available
Most important Symptoms/Effects	See Section 2 Hazard statements and Section 11

### Section 5: FIRE-FIGHTING MEASURES

Extinguishing Media Water, powder, CO<sub>2</sub>, foam

Prohibited Extinguishing	Not applicable
Specific Hazards arising from the Substance or Mixture	Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Hydrogen chloride gas
Special Protective Actions for Firefighters	Wear self-contained breathing apparatus for firefighting if necessary.

### Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, Emergency Procedures	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
Environmental Precautions	Do not pour product down the drain or river directly.
Methods for Cleaning Up	Wipe up the solution with disposal without creating dust. Keep in suitable, closed containers for disposal.
Reference to Other Section	For disposal, see section 13.

### Section 7: HANDLING AND STORAGE

Precautions for Safe Handling	Avoid contact with skin and eyes.
Conditions for Safe Storage, Including Any Incompatibilities	Store at 2 - 8°C. Keep container closed and away from direct sunlight. Do not freeze.
Specific End Use(s)	None

### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters	Components with workplace control parameters: no data available.
Exposure Controls	
Engineering measures	Use at a laboratory with facilities for washing body and eyes.
Personal protective equipment	Use personal protective equipment to avoid contact with eyes, mouth, skin, and clothing respond to situations.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Color	Clear and colorless
Physical state	Freeze-dried, odorless.
pH	5.8 – 6.2
Melting point/ Freezing Point	No data available
Boiling Point/ Initial Boiling Point / Boiling Range	No data available
Flash Point	No data available
Flammability Range/ Explosive range	No data available
Vapor pressure	No data available
Vapor density	No data available
Specific gravity Relative Density	No data available

Solubility in Octenol/ partition coefficient	Water	No data available
Spontaneous Ignition Temperature		No data available
Decomposition Temperature		No data available
Odor Threshold		No data available
Evaporation Rate		No data available
Flammability(Solid/Gas)		No data available

**Section 10: STABILITY AND REACTIVITY**

Reactivity	No data available
Stability	Stable until expiry date under recommended conditions.
Hazardous Reaction Possibility	No data available
Conditions to Avoid	No data available
Incompatible Materials	No data available
Hazardous Decomposition Substances	In the event of fire: see section 5

**Section 11: TOXICOLOGICAL INFORMATION**

Acute toxicity	Guanidinium chloride LD50 Oral - rat - 475 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Excitement. Diarrhea LD50 Oral - mouse - 571 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Muscle contraction or spasticity. Behavioral: Irritability. LD50 Dermal - rabbit - 2,000 mg/kg LD50 Oral - rat - 1,120 mg/kg ProClin 300 LD50 Oral - rat - 862 mg/kg LD50 Dermal - rabbit - 2,800 mg/kg
Skin Corrosivity/ Irritative	Guanidinium chloride Skin - rabbit - Skin irritation ProClin 300 Skin - rabbit - Skin corrosive
Serious Eye Damage/ Irritative	Guanidinium chloride Eyes - rabbit - Irritating to eyes ProClin 300 Eyes - rabbit - Corrosive to eyes
Respiratory Sensitization/ Sensitization	Respiratory Sensitization/ Skin Guanidinium chloride Buehler Test - guinea pig - Did not cause sensitization on laboratory animals. ProClin 300 Guinea pig - May cause sensitization by skin contact.
Germ Cell Mutagenicity	Guanidinium chloride Not mutagenic in Ames Test.

	ProClin 300 No data available
Carcinogenicity	Guanidinium chloride and ProClin 300 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive Toxicity	No data available
Specific target organ/ Systemic toxicity(Single Exposure)	No data available
Specific target organ/ Systemic toxicity(Repeated Exposure)	No data available
Aspiration Hazard	No data available
Additional Information	Guanidinium chloride RTECS: MF4300000 ProClin 300 RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	

**Section 12: ECOLOGICAL INFORMATION**

Toxicity	Guanidinium chloride Toxicity to fish LC50 - Leuciscus idus (Golden orfe) – 1,759 mg/l ProClin 300 No data available
Persistence and Degradability	Guanidinium chloride Result: - Not readily biodegradable. ProClin 300 No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Results of PBT and VPVB Assessment	Guanidinium chloride No data available ProClin 300 This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very boaccumulative (vPvB) at levels of 0.1% or higher.
Other Adverse Effects	Guanidinium chloride No data available ProClin 300 An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

**Section 13: DISPOSAL CONSIDERATIONS**

Waste Treatment Methods	Product Dispose in accordance with local disposal regulations.
-------------------------	---

Contaminated Containers and Packaging

Dispose the package of the product in accordance with local disposal regulations.

---

**Section 14: TRANSPORT INFORMATION**

During transportation, be sure the container has no leakage, not placed upside down, well packed up as to not collapse and crash on the floor and have any cracks.

The temperature of transportation should be 2 - 8°C.

---

**Section 15: REGULATORY INFORMATION**

15.1  
Safety, Health and Environmental  
Regulations/Legislation Specific for  
the Substance or Mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2  
Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

---

**Section 16: OTHER INFORMATION**

The above information is provided based on our best knowledge and information at the date of its publication. It does not represent any guarantee of this product. In case of special handling, carry out safety measures as appropriate for the application and method of use before attempting to use the substance with user's own responsibility. Eiken Chemical shall not be held liable for any damage from use of this information or from use of this product.

---