

SAFETY DATA SHEET

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product name	VET-SAA-QC-High
Product code	V-SZ92 G-SZ95
Recommended Use and Restrictions on Use	For Veterinary Research Use Only Only use for control to measure SAA
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.
 ≤ 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-QC-High Hazard substances	Freeze-dried product 1mL x 5 Guanidinium chloride 13.1% (1.4 mol/L) ProClin 300 0.1%
	VET-SAA Lysis buffer Hazard substances	12mL x 1 concentrations 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 ₅ N ₃ ·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 ₂ , foam
Prohibited Extinguishing	Not applicable
Specific Hazards arising from the Substance or Mixture	Carbon oxides, Nitrogen oxides (NO _x), 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 n Octenol/ Water partition coefficient	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	<p>Guanidinium chloride</p> <p>LD50 Oral - rat - 475 mg/kg</p> <p>Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Excitement. Diarrhea</p> <p>LD50 Oral - mouse - 571 mg/kg</p> <p>Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Muscle contraction or spasticity. Behavioral: Irritability.</p> <p>LC50 Dermal - rabbit - 2,000 mg/kg</p> <p>LD50 Oral - rat - 1,120 mg/kg</p> <p>ProClin 300</p> <p>LD50 Oral - rat - 862 mg/kg</p> <p>LD50 Dermal - rabbit - 2,800 mg/kg</p>
Skin Corrosivity/ Irritative	<p>Guanidinium chloride</p> <p>Skin - rabbit - Skin irritation</p> <p>ProClin 300</p> <p>Skin - rabbit - Skin corrosive</p>
Serious Eye Damage/ Irritative	<p>Guanidinium chloride</p> <p>Eyes - rabbit - Irritating to eyes</p> <p>ProClin 300</p> <p>Eyes - rabbit - Corrosive to eyes</p>
Respiratory Sensitization/ Skin Sensitization	<p>Guanidinium chloride</p> <p>Buehler Test - guinea pig - Did not cause sensitization on laboratory animals.</p> <p>ProClin 300</p>

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 bioaccumulative (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.

Limited Quantity

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.
