Product name: VET-SAA 'Eiken' Reagent Product code: V-SZ51, G-SZ52 Establishment / Oct 17, 2019

# SAFETY DATA SHEET

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product name VET-SAA 'Eiken' Reagent

Product code V-SZ51

G-SZ52

Recommended Use and Restrictions For Veterinary Research Use Only

- ----

on Use

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

Reagent-1

Acute toxicity, Oral (Category 4) Skin irritation (Category 2) Eye irritation (Category 2) Skin sensitization (Category 1)

Reagent-2

Skin irritation (Category 2) Eye irritation (Category 2) Skin sensitization (Category 1)

#### **Label Elements**

Pict	tograms
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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

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P305	5 + P351 + P338	water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
		present and easy to do. Continue rinsing.
P32	1	Specific treatment.
P332	2 + P313	If skin irritation occurs: Get medical advice/attention.
P333	3 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337	7 + P313	If eye irritation persists: Get medical advice/attention.
P362	2 + P364	Take off contaminated clothing and wash it before reuse.
P50	1	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 Reagent-1 Buffer solution  $20ml \times 2 \text{ vial}$ 

Hazard substances Guanidinium chloride 5.7% (0.6 mol/L)

Lithium chloride 5.1% (1.2 mol/L)

ProClin 300 0.1%

Reagent-2 Latex Reagent 20ml × 2 vial Hazard substances ProClin 300 0.1%

Information on Chemical Properties

Hazardous ingredients Guanidinium chloride Lithium chloride ProClin 300

(Common names and synonyms) Guanidine hydrochloride

Chemical Formula CH<sub>5</sub>N<sub>3</sub>·HCl LiCl -

CAS No. 50-01-1 7447-41-8 55965-84-9

Other identifiers EC No.: 200-002-3 EC No.: 231-212-3 -

### **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 soap and 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

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Section 5: FIRE-FIGHTING MEASURES

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

Not applicable Prohibited Extinguishing

Substance or Mixture

Specific Hazards arising from the Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

Special Protective Actions for

Firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

# Section 6: ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Avoid dust formation. Avoid breathing Personal Precautions, Protective

Equipment, Emergency Procedures vapors, mist or gas. Ensure adequate ventilation.

**Environmental Precautions** Do not pour product down the drain or river directly.

Wipe up the solution with disposal without creating dust. Keep in suitable, Methods for Cleaning Up

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. Avoid formation of dust and aerosols.

Conditions for Safe

**Including Any Incompatiblities** 

Store at 2 - 10°C. Keep container closed and away from direct sunlight. Do

not freeze.

Specific End Use(s) Non

### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters** Components with workplace control parameters: no data available.

**Exposure Controls** 

Use at a laboratory with facilities for washing body and eyes. Engineering measures

Personal protective equipment Use personal protective equipment to avoid contact with eyes, mouth, skin,

and clothing respond to situations. Wear protective gloves. Chemical

goggles or safety glasses.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Color Reagent 1: Clear and colorless

Reagent 2: Milky white

Physical state Liquid, odorless.

pН Reagent 1: 7.2 - 7.6

Reagent 2: 7.1 - 7.5

Melting point/ Freezing Point No data available

Boiling Point/ Initial Boiling Point /

**Boiling Range** 

No data available

Flash Point No data available Flammability Explosive No data available Range/

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range

Vapor pressure No data available Vapor density No data available Specific gravity Relative Density  $1.03-1.06~\mathrm{g/cm^3}$  Solubility n Octenol/ Water No data available

partition coefficient

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 Oxidizing agents

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

Lithium chloride

LD50 Oral – rat - 526-840 mg/kg

ProClin 300

LD50 Oral - rat - 862 mg/kg LD50 Dermal-rabbit - 2,800 mg/kg

Skin Corrosivity/ Irritative Guanidinium chloride and Lithium chloride

Skin - rabbit - Skin irritation

ProClin 300

Skin - rabbit - Skin corrosive

Serious Eye Damage/Irritative Guanidinium chloride and Lithium chloride

Eyes - rabbit - Irritating to eyes

ProClin 300

Eyes - rabbit - Corrosive to eyes

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Respiratory Sensitization/ Skin Guanidinium chloride

Sensitization Buehler Test - guinea pig - Did not cause sensitization on laboratory

> animals. Lithium chloride No data available ProClin 300

> > Guinea pig – May cause sensitization by skin contact.

Germ Cell Mutagenicity Guanidinium chloride

> Not mutagenic in Ames Test. Lithium chloride and ProClin 300

No data available

Guanidinium chloride and ProClin 300 Carcinogenicity

> 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. Lithium chloride No data available

Reproductive Toxicity Guanidinium chloride and ProClin 300

> No data available Lithium chloride cat.2; HSDB, 2007

Specific target organ/ Systemic toxicity(Single Exposure)

Guanidinium chloride and ProClin 300

No data available Lithium chloride

Nervous system (IUCLID, 2000)

Specific target organ/ Systemic

Guanidinium chloride and ProClin 300 toxicity(Repeated Exposure)

No data available Lithium chloride

Nervous system, Kidney (IUCLID, 2000)

**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

Lithium chloride

Toxicity of fish LC50 - Ptychocheilus Lucius - 17mg/L/96hr (AQUIRE,

2011) ProClin 300

No data available

Persistence and Degradability Guanidinium chloride

> Result: - Not readily biodegradable. Lithium chloride and ProClin 300

No data available

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Bioaccumulative Potential Guanidinium chloride and ProClin 300

No data available Lithium chloride

 $\log Pow = -2.7$  (ICSC, 1997)

Mobility in Soil No data available

Results of PBT and VPVB Guanidinium chloride and Lithium chloride

Assessment 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 and Lithium 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 - 10°C.

## **Section 15: REGULATORY INFORMATION**

<u>15.1</u> This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, Health and Environmental Regulations/Legislation Specific for

the Substance or Mixture

For this product a chemical safety assessment was not carried out

Chemical Safety Assessment

## **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.