

SAFETY DATA SHEET

Section 1: PRODUCT AND COMPANY IDENTIFICATION

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|-----------------------------------------|-------------------------------------------------------------------------|
| Product name | VET-SAA-QC-Low |
| Product code | V-SZ91 G-SZ94 |
| 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.

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| 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

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|------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Substance / Mixture | Mixture | |
| Composition | VET-SAA-QC-Low 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

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| 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

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|--------------------------------------------------------|--------------------------------------------------------------------------|
| 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

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|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 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

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|--------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 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

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|-------------------------------|----------------------------------------------------------------------------------------------------------------|
| 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

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|------------------------------------------------------|-------------------------|
| 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

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|------------------------------------|--------------------------------------------------------|
| 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

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| 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. LC50 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/ Skin Sensitization | 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 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.

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.
