

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078941168

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078941157 078941159 078941166 078941169 078941178



Virbac AH, Inc. encourages and expects you to read and understand the entire SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

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## 1. IDENTIFICATION

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<b>Product Name</b>	<b>SENERGY® (selamectin)</b>
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Identified uses</b>	Topical application pesticide & anthelmintic agent in treatment of fleas and mites, heartworm prevention and mange-(dogs) and for cats
<b>Restrictions on Use</b>	For veterinary use
<b>Company Identification</b>	Virbac AH, Inc. P.O. Box 162059 Fort Worth, Texas 76161 (800) 338-3659
<b>Customer Information Number</b>	
<b>Emergency Telephone Number</b>	
<b>CHEMTREC Number</b>	(800) 424-9300
<b>Other Emergency Number:</b>	Human Toll-free 833-224-2009 Animal Toll-free 833-224-2013
<b>Issue Date</b>	December 20, 2021
<b>Supersedes Date</b>	This is first issue

*Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).*

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## 2. HAZARD IDENTIFICATION

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### Hazard Classification

Flammable Liquids – Category 2  
Reproductive Toxicity – Category 2  
Serious Eye Damage/Irritation – Category 2A  
Specific Target Organ Toxicity – Single Exposure – Category 3  
Acute Aquatic Toxicity – Category 2 (not an OSHA recognized hazard)  
Chronic Aquatic Toxicity – Category 2 (not an OSHA recognized hazard)

### Label Elements

Hazard Symbols



Signal Word: DANGER

### Hazard Statements

Highly flammable liquid and vapor.  
Suspected of damaging fertility or the unborn child.  
Causes serious eye irritation  
May cause drowsiness or dizziness



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## 2. HAZARD IDENTIFICATION

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### Precautionary Statements

#### Prevention

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wash thoroughly after handling.  
Avoid breathing mist, spray, vapor.  
Use only outdoors or in well ventilated area.  
Wear protective gloves, eye protection and face protection.  
Keep away from heat, sparks, open flame, hot surfaces. - No smoking.  
Keep container tightly closed.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.

#### Response

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
If inhaled: Remove to fresh air and keep comfortable for breathing.  
If exposed or concerned: Get medical advise/attention.  
In case of fire: Use extinguishing measures that appropriate to local circumstances.

#### Storage

Store in a well-ventilated place.  
Keep cool.  
Keep container tightly closed.  
Store locked up.

#### Disposal

Dispose of contents/container in accordance with local regulation.

#### Other Hazards

None

### Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	0%
Acute dermal toxicity	0%
Acute inhalation toxicity	0%
Acute aquatic toxicity	0%

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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### Synonyms:

This product is a mixture.

Component Name	CAS Number	Concentration*	
		120 mg	60 mg
Isopropyl Alcohol	67-63-0	≤ 72.5%	≤ 86.5%
Selamectin	165108-07-6	≤ 14.5%	≤ 7.5%
Butylated hydroxy-toluene	128-37-0	< 0.1%	< 0.1%

\*Exact concentration withheld as trade secret.



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#### **4. FIRST- AID MEASURES**

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**Description of necessary first-aid measures**

**Eyes**

Immediately flood the eye with plenty of water for at least for several minutes, holding the eye open. Obtain medical attention if symptoms persist.

**Skin**

Wash skin thoroughly with soap and water. Obtain medical attention if symptoms persist.

**Ingestion**

Rinse mouth with water. Call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Inhalation**

Remove person to fresh air. Seek medical attention if symptoms persist.

**Most important symptoms/effects, acute and delayed**

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

**Indication of immediate medical attention and special treatment needed**

**Notes to Physicians**

Treat symptomatically. No specific antidote. Barbiturates should be avoided or used with caution.

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#### **5. FIRE - FIGHTING MEASURES**

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**Extinguishing Media**

Use foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.

**Unusual Fire and Explosion Hazards**

Vapors can travel a considerable distance to a source of ignition and flashback. Flashback can occur if air temperature exceeds flash point. Be aware of possibility of re-ignition. Can release hazardous vapors during a fire. Do not release contaminated fire water to the environment.

**Protective Equipment for Fire-Fighting**

Wear full protective clothing and self-contained breathing apparatus.

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#### **6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures**

Wear appropriate protective clothing. Eliminate all sources of ignition. Use non-sparking tools for flammable materials.

**Environmental Precautions**

Prevent the material from entering drains or watercourses.

**Methods and materials for containment and cleaning up**

Wipe up and transfer into suitable containers for recovery or disposal.



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**7. HANDLING AND STORAGE**

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**Precautions for safe handling**

Wear appropriate protective clothing. Do not eat, drink, or smoke during use of product. Avoid contact with eyes. Avoid breathing mists/vapors. Keep treated animals away from fires and ignition sources as a precaution due to high alcohol content of finished product.

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**7. HANDLING AND STORAGE**

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**Conditions for safe storage**

Store in original container at temperatures less than 30°C. Store away from children and pets. Store away from sources of heat or ignition. Storage area should be: cool - dry - well ventilated - away from incompatible materials - out of direct sunlight - away from sources of ignition (heat, sparks, flames, and pilot lights)

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Control parameters**

Exposure limits are listed below, if they exist.

**2-Propanol (Isopropanol)**

ACGIH: TLV 200 ppm (492 mg/m<sup>3</sup>), 8hr; 15 min STEL 400 ppm (984 mg/m<sup>3</sup>)

OSHA PEL: 400 ppm (980 mg/m<sup>3</sup>)

**Selamectin**

OEL (TWA) 0.2 mg/m<sup>3</sup>

**Butyl-hydroxy-toluene**

ACGIH: TLV 2 mg/m<sup>3</sup> IFV Measured as inhalable fraction and vapor

**Appropriate engineering controls**

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

**Individual protection measures**

**Respiratory Protection**

Finished product does not require respiratory protection under normal conditions of use as long as it is in a well ventilation environment. Wear respiratory protection if there is a risk of exposure in enclosed areas and if working with bulk volumes. A NIOSH approved respirator should be worn. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

**Skin Protection**

Gloves

**Eye/Face Protection**

Safety glasses

**Body Protection**

Normal work wear.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance**

<b>Physical State</b>	Liquid
<b>Color</b>	Clear pale yellow



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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Odor</b>	Faint, alcoholic
<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available
<b>Density</b>	No data available
<b>Boiling Range/Point (°C/F)</b>	84°C
<b>Melting Point (°C/F)</b>	No data available
<b>Flash Point (PMCC) (°C/F)</b>	19/66
<b>Vapor Pressure</b>	No data available
<b>Evaporation Rate (BuAc=1)</b>	No data available
<b>Solubility in Water</b>	Miscible
<b>Vapor Density (Air = 1)</b>	No data available
<b>VOC</b>	No data available
<b>Partition coefficient (n-octanol/water)</b>	Log P: 3.1
<b>Viscosity</b>	Not applicable
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Upper explosive limit</b>	No data available
<b>Lower explosive limit</b>	No data available
<b>Flammability (solid, gas)</b>	No data available

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**10. STABILITY AND REACTIVITY**

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**Reactivity**

Product is considered stable.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Heat, sparks, flames - high temperatures - sources of ignition - contact with incompatible materials

**Incompatible Materials**

Strong acids - strong bases

**Hazardous Decomposition Products**

Oxides of carbon – organic compounds

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**11. TOXICOLOGICAL INFORMATION**

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**Acute Toxicity**

Isopropyl Alcohol

Oral LD50 (rat) >5000 mg/kg

Dermal LD50 (rabbit) 13,900 mg/kg

Inhalation LD50 (rat) >25 mg/l (6h vapor)

Selamectin

Oral LD50 (rat) >1,600 mg/kg



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**11. TOXICOLOGICAL INFORMATION**

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**Specific Target Organ Toxicity (STOT) – single exposure**

Isopropyl alcohol: May cause drowsiness or dizziness.

**Specific Target Organ Toxicity (STOT) – repeat exposure**

Selamectin: NOAEL(female rat) 5 mg/kg/day (3M). Organs: blood. Liver, GI

**Serious Eye damage/Irritation**

Selamectin: Causes very slight irritation (rabbit)

Isopropyl alcohol: Can cause serious eye damage.

**Skin Corrosion/Irritation**

Available data indicates this product is not expected to cause skin irritation.

**Respiratory or Skin Sensitization**

Selamectin: Not a skin sensitizer (guinea pig)

Isopropyl alcohol: Not a skin sensitizer

**Carcinogenicity**

Not considered carcinogenic by NTP, IARC, and OSHA.

Butylated hydroxy-toluene: IARC-3 TLV-A4

**Germ Cell Mutagenicity**

Selamectin: Was found to be negative in the following: Ames Assay; Invitro chromosomal aberration assay; In-vivo micronucleus test; mammalian mutation test.

**Reproductive Toxicity**

Selamectin: In rat studies of 40-60 mg/kg/day was found to increase incidence of enlarged atria and fibrin in thoracic cavities. Maternal toxicity occurred at 60 mg/kg/day. The NOAEL for maternal toxicity was 40 mg/kg/day. The NOAEL for fetotoxicity was 10 mg/kg/day.

At 60 mg/kg/day in rat fertility study found reduced litter size and fertility. The NOAEL was 10 mg/kg/day

**Aspiration Hazard**

Finished product is not classified as an aspiration hazard.

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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity**

Selamectin: Daphnia magna 48 hr 0.026 microgram/L; Rainbow trout 96 hr 266.0 microgram/L; Green Algae 72 hr >763.0 microgram/L

**Mobility in soil**

Selamectin: t<sub>1/2</sub>: SOIL (sediment) 1600 days

**Persistence/Degradability**

Selamectin: t<sub>1/2</sub>: SOIL (surface) 360 days. WATER 180 days.

**Bioaccumulative Potential**

Selamectin: BCF (estimated) 820



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**12. ECOLOGICAL INFORMATION**

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**Other adverse effects**

Selamectin: Has a low water solubility and binds to soil/sediment and persist

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**13. DISPOSAL CONSIDERATIONS**

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**Disposal Methods**

Dispose of in accordance with all applicable local and national regulations.

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**14. TRANSPORT INFORMATION**

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<b>DOT CFR 172.101 Data</b>	Isopropanol Solution, 3, UN1219, II
<b>UN Proper Shipping Name</b>	Isopropanol Solution
<b>UN Class</b>	(3)
<b>UN Number</b>	UN1219
<b>UN Packaging Group</b>	II
<b>Classification for AIR Transportation (IATA)</b>	Isopropanol Solution, 3, UN1219, II
<b>Classification for Water Transport (IMDG)</b>	Isopropanol Solution, 3, UN1219, II
<b>Marine Pollutant</b>	Selamectin

**Note:** This product may avail Excepted Quantity or Limited Quantity provisions.

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**15. REGULATORY INFORMATION**

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**United States TSCA Inventory**

All components of this product have not been verified for inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

**SARA Title III Sect. 311/312 Categorization**

Flammable liquid, Serious eye damage or eye irritation, Reproductive Toxicity, Specific target organ toxicity (single exposure)

**SARA Title III Sect. 313**

This product contains a chemical that is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: Isopropanol

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**16. OTHER INFORMATION**

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**Legend**

ACGIH: American Conference of Governmental Industrial Hygienists  
BOD: Biological Oxygen Demand  
CAS#: Chemical Abstracts Service Number  
FIFRA: Federal Insecticide, Fungicide and Rodenticide Act  
IARC: International Agency for Research on Cancer  
LC50: Lethal Concentration 50%  
LD50: Lethal Dose 50%  
N/A: Denotes no applicable information found or available  
NTP: National Toxicology Program





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**16. OTHER INFORMATION**

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NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible Exposure Limit  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Value  
TSCA: Toxic Substance Control Act

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Replaces: This is first issue  
Changes made: This is first issue

**Information Source and References**

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

**Prepared By:** EnviroNet LLC.

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