SAFETY DATA SHEET (SDS)

Section 1. Identification

Product identifier	BUGWACKER BARN & LIVESTOCK SPRAY
Other means of identification	PCP# 24159
Recommended use and restrictions on use	Insecticide in 4 L, 10 L and 20 L container
Initial supplier identifier	Can-Vet Animal Health Supplies Ltd. 61 Malcolm Rd, Guelph ON (Canada), N1K 1A7 Tel: (519)-822-5333
Emergency telephone number/restriction on use	Canada – CANUTEC 24 hour number 613-996-6666

Section2. Hazard identification

Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)

Harmful if swallowed, inhaled, absorbed through skin. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Do not breathe spray mist. Use with adequate ventilation. Wear long pants, long-sleeved shirt, chemical-resistant gloves, shoes, and socks during mixing, loading, application, clean-up and repair. If irritation appears, discontinue use.

Wash contaminated clothing before reuse. Do not contaminate feed, food, or litter. Do not contaminate food handling equipment. Store in original container away from feed and food. Do not use in areas where bee-keeping equipment or supplies are stored, or where milk is stored or processed.

Toxic to birds, wildlife, bees and beneficial insects. Highly toxic to aquatic organisms. Do not contaminate any body of water. This product contains a petroleum distillate at 99% (proportion by weight) which is moderately to highly toxic to aquatic organisms.

Other hazards known	None

Section 3. Composition/information on ingredients

Chemical name (common name/synonyms)	**CAS number or other**	**Concentration (%)**
Pyrethrin	8003-34-7	0.1-1.0 %
Pyperonyl butoxide	51-03-6	0.5-1.5 %
Mineral Oil	8042-47-5	95-100 %

Section 4. First-aid measures

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.
Ingestion	IF SWALLOWED: Immediately call a doctor. DO NOT INDUCE VOMITING. NEVER give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing. Rinse mouth thoroughly with water. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (15-20 minutes). IF SKIN irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.
Eye contact	IF IN EYES, Rinse cautiously with water for several minutes (5-10). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Most important symptoms and effects (acute or delayed)	May be harmful if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness.
Indication of immediate medical attention/special treatment	In all cases, call a doctor. Do not forget this document

Section 5. Fire-fighting measures

Specific hazards of the hazardous product (hazardous combustion products)

Carbon oxides and other irritant/toxic gases and fumes.

Suitable and unsuitable extinguishing media

In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish.

Special protective equipment and precautions for fire-fighters

During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and cans exposed to heat and flame.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8).

Methods and materials for containment and cleaning up

Ventilate area of release. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required

Section 7. Handling and storage

Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash hands/nails/face thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear gloves/protective clothing/eye protection/face protection.

Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Inspect containers for leaks before handling. Label containers appropriately. Ensure proper ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of dusts, vapours or mists. Keep away from incompatible materials (Section 10). Keep containers closed when not in use. Empty containers are always dangerous. Refer also to Section 8.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.

Section 8. Exposure controls/Personal protection

Control parameters (biological limit values or exposure limit values and source of those values)

Exposure limits: CAS 8003-34-7 – ACGIH – TLV-TWA & PEL-TWA 5 mg/m3. CAS 64742-47-8 – ACGIH – TLV-TWA 200 mg/m3

Appropriate engineering controls

Use under well-ventilated conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Individual protection measures/personal protective equipment

Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirators if the exposure limits are unknown. Chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact, must be worn during all handling operations. Wear protective chemical splash goggles to prevent mists from entering the eyes. Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use.

Section 9. Physical and chemical properties

Appearance, physical state/colour	Clear liquid	**Vapour pressure**	2 mm Hg @ 20°C
Odour	Fruity	**Vapour density**	Heavier than air
Odour threshold	Not available	**Relative density**	0.87 g/mL
pH	Not available	**Solubility**	Insoluble
Melting/freezing point	Not available	**Partition coefficient - n-octanol/water**	Not available
Initial boiling point/range	~315°C	**Auto-ignition temperature**	229°C
Flash point	~181C	**Decomposition temperature**	Not available
Evaporation rate	0.13 @ 20°C	**Viscosity**	Not available
Flammability (solids and gases)	Not available	**VOC**	Not available
Upper and lower flammability/explosive limits	0.7-5.6%	**Other**	None known

Section 10. Stability and reactivity

Reactivity

Does not react under the recommended storage and handling conditions prescribed.

Chemical stability

Stable under the recommended storage and handling conditions prescribed.

Possibility of hazardous reactions

Accumulation of flammable if product is heated.

Conditions to avoid (static discharge, shock or vibration)
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible materials
Oxidizing materials; etc.
Hazardous decomposition products
None known
Section 11. Toxicological information
Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)
May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness.
Symptoms related to the physical, chemical and toxicological characteristics
Skin irritation, redness, stinging, pain; Respiratory tract irritation, coughing, shortness of breath, dizziness, drowsiness, nausea and headaches.
Delayed and immediate effects (chronic effects from short-term and long-term exposure)
Skin Sensitization – Possible; Respiratory Sensitization – No data available; Germ Cell Mutagenicity – No data available; Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP or OSHA Reproductive Toxicity – No data available; Specific Target Organ Toxicity — Single Exposure – Central nervous system; Specific Target Organ Toxicity — Repeated Exposure – No data available; Aspiration Hazard – Possible; Health Hazards Not Otherwise Classified – No data available.
Numerical measures of toxicity (ATE; LD50 & LC50)
CAS 8003-34-7 LD50 Oral - Rat - 200 mg/kg & LD50 Dermal - Rabbit - 300 mg/kg; CAS 51-03-6 LD50 Oral - Rat - 200 mg/kg ATE not available in this document.
Section 12. Ecological information

Ecotoxicity (aquatic and terrestrial information)	No data available for this product. CAS 8003-34-7 Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0.05 mg/l - 96.0 h; Toxicity to daphnia and other aquatic Invertebrates EC50 - Daphnia pulex (Water flea) - 0.02 mg/l - 48 h; CAS 51-03-6 Toxicity to fish flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - ca. 6.12 mg/l - 96 h; Toxicity to daphnia and other aquatic invertebrates flow-through test EC50 - Daphnia magna (Water flea) - ca. 0.05 mg/l - 48 h; Method: OECD Test Guideline 202 Toxicity to algae Growth inhibition ErC50 - Pseudokirchneriella subcapitata (Selenastrum capricornutum) - ca. 3.89 mg/l - 72 h; Method: OECD Test Guideline 201 Toxicity to bacteria EC50 - Sludge Treatment - > 1,000 mg/l - 3 h Method: OECD Test Guideline 209
Persistence and degradability	No data available for this product.
Bio accumulative potential	No data available for this product.
Mobility in soil	No data available for this product.
Other adverse effects	No data available

Section 13. Disposal considerations
Information on safe handling for disposal/methods of disposal/contaminated packaging
Dispose of contents/container into safe container in accordance with local, regional or national regulations
Section 14. Transport information
UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations
U N1268; PETROLEUM DISTILLATES, N.O.S.; CLASS 3; PG III
UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)
UN1268; PETROLEUM DISTILLATES, N.O.S.; CLASS 3; PG III
UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)
UN1268; PETROLEUM DISTILLATES, N.O.S.; CLASS 3; PG III

Special precautions (transport/conveyance)	May also be shipped as NOT REGULATED by ground in accordance with TDG.
Environmental hazards (IMDG or other)	Marine pollutant (Pyperonyl butoxide)
Bulk transport (usually more than 450 L in capacity)	Possible

Section 15. Regulatory information

Safety/health Canadian regulations specifics	Refer to Section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).

Environmental Canadian regulations specifics	Refer to Section 3 for ingredient(s) of the DSL

Safety/health/environmental outside regulations specifics

United States OSHA information: This product is regulated according to OSHA (29 CFR).
United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.
United States TCSA information: Refer to the ingredients listed in Section 3.
National Fire Protection Association (NFPA):
HEALTH: 1 FLAMMABILITY: 2 INSTABILITY: 0 SPECIAL HAZARDS: Refer to Section 2 & 3. HAZARD SCALE: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Section 16. Other information

Date of the latest revision of the safety data sheet	March 09, 2020
References	Safety Data Sheets from manufacturer/supplier & from Canadian Centre for Occupational Health and Safety, CCOHS.
Abbreviations	

ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
CAS	Chemical Abstract Service
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System