

# SAFETY DATA SHEETS

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

078928601

N/A

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

**Initial preparation date:** 06.06.2016

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**Revision date:** 03.25.2021

### Flyzap™ Indoor Fogger

#### SECTION 1: Identification

##### Product identifier

**Product name:** Flyzap™ Indoor Fogger

**Product code:** 21272665

##### Recommended use of the product and restriction on use

**Relevant identified uses:** Insecticide

**Uses advised against:** Any use other than that recommended above.

**Reasons why uses advised against:** Not determined or not applicable.

##### Manufacturer or supplier details

###### Supplier:

###### United States

Aspen Veterinary Resources Ltd  
3155 W. Heartland Drive  
Liberty, MO 64068  
1-800-792-1238

##### Emergency telephone number:

###### United States

CHEMTREC

Within USA and Canada: 1-800-424-9300 (24 hours)

Outside USA and Canada: +1-703-527-3887 (24 hours)

#### SECTION 2: Hazard(s) identification

##### GHS classification:

Flammable aerosols, category 1

Skin sensitization, category 1

Liquefied gases

##### Label elements

###### Hazard pictograms:



**Signal word:** Danger

##### Hazard statements:

H222 Extremely flammable aerosol

H280 Contains gas under pressure; may explode if heated

H317 May cause an allergic skin reaction

##### Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

P211 Do not spray on an open flame or other ignition source

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P251 Pressurized container: Do not pierce or burn, even after use  
P261 Avoid breathing fume/gas/mist/vapors/spray  
P272 Contaminated work clothing must not be allowed out of the workplace  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P302+P352 IF ON SKIN: Wash with plenty of water  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention  
P321 Specific treatment (see first aid instructions on this label)  
P363 Wash contaminated clothing before reuse  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F  
P410+P403 Protect from sunlight. Store in a well-ventilated place  
P501 Dispose of contents/container in accordance with all local, regional, state and federal regulations.

**Hazards not otherwise classified:** None

### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 113-48-4	n-Octyl bicycloheptene dicarboximide	3
CAS number: 51-03-6	Piperonyl Butoxide	2
CAS number: 8003-34-7	Pyrethrins	1

#### Additional Information:

The specific chemical identity and/or exact percentages (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

### SECTION 4: First aid measures

#### Description of first aid measures

##### General notes:

Show this Safety Data Sheet to the doctor in attendance.

##### After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

##### After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

##### After eye contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

##### After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms

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develop or persist, seek medical advice/attention.

#### Most important symptoms and effects, both acute and delayed

##### Acute symptoms and effects:

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

Pressurized containers are prone to bursting if mishandled and causing physical injury. Inhalation of a large concentration may displace oxygen and lead to asphyxiation. Direct skin or eye contact may lead to frostbite which can result in permanent tissue damage.

##### Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

#### Immediate medical attention and special treatment

##### Specific treatment:

Not determined or not applicable.

##### Notes for the doctor:

Treat symptomatically.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

##### Unsuitable extinguishing media:

Do not use water jet.

#### Specific hazards during fire-fighting:

Flammable liquid under pressure. Containers may explode when heated. Ruptured cylinders pose a projectile hazard. Vapor/gas is often heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas and travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create a fire or explosion hazard. Thermal decomposition may produce irritating/toxic fumes/gases.

#### Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode. Use shielding to protect against bursting containers.

#### Special precautions:

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 500 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Use water spray/fog for cooling fire exposed containers. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. Use water spray to reduce vapors or divert vapor cloud drift. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Isolate area until gas has dispersed. Ventilate area. Extinguish any

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sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

### Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

### Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. Stop leak if you can do it without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Do not direct water at spill or source of leak. Allow substance to evaporate. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

### Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

## SECTION 7: Handling and storage

### Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Do not puncture, pressurize or incinerate. Inspect all cylinders and valves for damage. Make sure cylinders are not giving off an odor or making a hissing sound. Never open a damaged valve. Never tamper with safety devices in cylinders, valves or equipment. Handle containers with caution. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

### Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Store upright. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Containers less than 230 liters should be kept in a fire-resistant storage cabinet or inside storage room rated for fire resistance. Do not store near exits or oxygen cylinders. Consider the use of leak detection and alarm equipment. Store away from incompatible materials (See Section 10).

## SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
NIOSH	Pyrethrins	8003-34-7	IDLH: 5000 mg/m <sup>3</sup>
	Pyrethrins	8003-34-7	REL: 5 mg/m <sup>3</sup>
OSHA	Pyrethrins	8003-34-7	PEL: 5 mg/m <sup>3</sup>
	Pyrethrins	8003-34-7	TWA: 5 mg/m <sup>3</sup>
United States(California)	Pyrethrins	8003-34-7	PEL: 5 mg/m <sup>3</sup>
ACGIH	Pyrethrins	8003-34-7	8-Hour TWA: 5 mg/m <sup>3</sup>

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### Biological limit values:

No biological exposure limits noted for the ingredient(s).

### Information on monitoring procedures:

Not determined or not applicable.

### Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

### Personal protection equipment

#### Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

#### Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

#### Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

### General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance	Yellowish-Colored Liquid
Odor	Pyrethroid Odor
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Aerosol Under Pressure
Flash point (closed cup)	< -50°C
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Flammable
Upper flammability/explosive limit	9.5
Lower flammability/explosive limit	1.8
Vapor pressure	60 psi @ 70°F
Vapor density	0.71 g/mL
Density	Not determined or not available.

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Relative density	8.3232 lb/gal
Solubilities	Not soluble.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

### Other information

#### SECTION 10: Stability and reactivity

##### Reactivity:

Not reactive under recommended handling and storage conditions.

##### Chemical stability:

Stable under recommended handling and storage conditions.

##### Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

##### Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources, static electricity and incompatible materials.

##### Incompatible materials:

Strong oxidizing agents, acids and bases.

##### Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### SECTION 11: Toxicological information

##### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

##### Substance data:

Name	Route	Result
n-Octyl bicycloheptene dicarboximide	oral	LD50 Mouse: 1000 mg/kg
	dermal	LD50 Rabbit: 470 mg/kg
	inhalation	LC50 Rat: 1.94 mg/L (4 h [Mist])
Piperonyl Butoxide	oral	LD50 Rat: 6150 mg/kg
	dermal	LD50 Rabbit: 200 mg/kg
	inhalation	LC50 Rat: >5.9 mg/L (4 h)
Pyrethrins	oral	LD50 Rat: 200 mg/kg
	dermal	LD50 Rabbit: 300 mg/kg

##### Skin corrosion/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

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No data available.

**Substance data:** No data available.

### Serious eye damage/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Respiratory or skin sensitization

**Assessment:**

May cause an allergic skin reaction.

**Product data:**

No data available.

**Substance data:**

Name	Result
n-Octyl bicycloheptene dicarboximide	May cause an allergic skin reaction.

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### International Agency for Research on Cancer (IARC):

Name	Classification
n-Octyl bicycloheptene dicarboximide	Not Applicable
Piperonyl Butoxide	Group 3
Pyrethrins	Not Applicable

### National Toxicology Program (NTP):

Name	Classification
n-Octyl bicycloheptene dicarboximide	Not Applicable
Piperonyl Butoxide	Not Applicable
Pyrethrins	Not Applicable

**OSHA Carcinogens:** Not applicable

### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Specific target organ toxicity (single exposure)

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**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Information on likely routes of exposure:

Inhalation, Ingestion, Skin contact, Eye contact.

### Symptoms related to the physical, chemical and toxicological characteristics:

Refer to Section 4 of this SDS.

### Other information:

No data available.

## SECTION 12: Ecological information

### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

Name	Result
n-Octyl bicycloheptene dicarboximide	LC50 Oncorhynchus mykiss: 1.4 mg/L (96 h)
	EC50 Daphnia magna: 2.3 mg/L (48 h)
	EC50 Pseudokirchneriella subcapitata: 2.28 mg/L (72 h)
Piperonyl Butoxide	EC50 Daphnia magna: 0.51 mg/L (48 h)

### Chronic (long-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

Name	Result
Piperonyl Butoxide	NOEC Pimephales promelas: 0.18 mg/L (35 d)

### Persistence and degradability

**Product data:** No data available.

**Substance data:**

Name	Result
n-Octyl bicycloheptene dicarboximide	Not readily biodegradable.

### Bioaccumulative potential

**Product data:** No data available.

**Substance data:**

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Name	Result
n-Octyl bicycloheptene dicarboximide	The substance has the potential to bioaccumulate (log Kow = 3.7).
Piperonyl Butoxide	The substance has the potential to bioaccumulate significantly (low Kow: 4.75).

### Mobility in soil

**Product data:** No data available.

#### Substance data:

Name	Result
n-Octyl bicycloheptene dicarboximide	Low mobility in soil (Koc ~ 1721)

### Results of PBT and vPvB assessment

#### Product data:

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

#### Substance data:

##### PBT assessment:

n-Octyl bicycloheptene dicarboximide	The substance is not PBT.
Piperonyl Butoxide	The substance is not PBT.

##### vPvB assessment:

n-Octyl bicycloheptene dicarboximide	The substance is not vPvB.
Piperonyl Butoxide	The substance is not vPvB.

**Other adverse effects:** No data available.

## SECTION 13: Disposal considerations

### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### Contaminated packages:

Not determined or not applicable.

## SECTION 14: Transport information

### United States Transportation of dangerous goods (49 CFR DOT)

UN number	3354
UN proper shipping name	Insecticide gases, flammable, n.o.s. (Petroleum Distillates)
UN transport hazard class(es)	2.1  
Packing group	None
Environmental hazards	Marine Pollutant (n-Octyl bicycloheptene dicarboximide, Piperonyl Butoxide)
Special precautions for user	None
Passenger air/rail	Forbidden

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<b>Cargo aircraft only</b>	150kg
<b>Stowage category</b>	D

#### International Maritime Dangerous Goods (IMDG)

<b>UN number</b>	3354	
<b>UN proper shipping name</b>	INSECTICIDE GAS, FLAMMABLE, N.O.S. (PETROLEUM DISTILLATES)	
<b>UN transport hazard class(es)</b>	2.1	 
<b>Packing group</b>	None	
<b>Environmental hazards</b>	Marine Pollutant (n-Octyl bicycloheptene dicarboximide, Piperonyl Butoxide)	
<b>Special precautions for user</b>	None	
<b>EMS number</b>	F-D, S-U	
<b>Stowage category</b>	D	
<b>Excepted quantities</b>	E0	

#### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

<b>UN number</b>	3354	
<b>UN proper shipping name</b>	Insecticide gas, flammable, n.o.s. (Petroleum Distillates)	
<b>UN transport hazard class(es)</b>	None	
<b>Packing group</b>	None	
<b>Environmental hazards</b>	Marine Pollutant (n-Octyl bicycloheptene dicarboximide, Piperonyl Butoxide)	
<b>Special precautions for user</b>	None	
<b>ERG code</b>	10L	
<b>Excepted quantities</b>	E0	
<b>Passenger and cargo</b>	Forbidden	
<b>Cargo aircraft only</b>	150 kg	
<b>Limited quantity</b>	Forbidden	

### SECTION 15: Regulatory information

#### United States regulations

**Inventory listing (TSCA):** All ingredients are listed-active or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 extremely hazardous substances:** None of the ingredients are listed.

**SARA Section 313 toxic chemicals:**

51-03-6	Piperonyl Butoxide	Listed
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**CERCLA:**

8003-34-7	Pyrethrins	Listed	1 lb
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**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

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### Massachusetts Right to Know:

8003-34-7	Pyrethrins	Listed
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### New Jersey Right to Know:

51-03-6	Piperonyl Butoxide	Listed
8003-34-7	Pyrethrins	Listed

### New York Right to Know:

8003-34-7	Pyrethrins	Listed
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### Pennsylvania Right to Know:

8003-34-7	Pyrethrins	Listed
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**California Proposition 65:** None of the ingredients are listed.

## SECTION 16: Other information

**Abbreviations and Acronyms:** None

### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 2-4-3

**HMIS:** 2-4-3

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### Revision Notes:

Revision Date	Notes
2021-03-25	Version 2

**End of Safety Data Sheet**