


SAFETY DATA SHEET (SDS)

PyClear

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| Form #: | SDS-099 |
| Revision Date: | 06/10/2019 |
| Revision #: | 01 |
| Supersedes Date: | NA |

| Section 1: Identification | | | |
|---------------------------|--|--|--------------------|
| Product Name: | PyClear | Product Type / Description: | Insecticide |
| Recommended Use: | Insecticide for commercial use. | Other Means of Identification: | Pyrethrins mixture |
| Use Restrictions: | It is a violation of federal law to use this product in a manner inconsistent with its labeling. | | |
| Manufacturer: | BioSafe Systems, LLC 22 Meadow Street East Hartford, CT 06108 | EPA Registration: | 89459-40-70299 |
| Telephone Number: | 1-888-273-3088 | Emergency Number: 1-800-424-9300 (CHEMTREC) | |

| Section 2: Hazard Identification | |
|--|--|
| GHS Classification | Hazard Statements |
| Flammable Liquids: Category 4 Aspiration Hazard: Category 1 Skin Corrosion/Irritation: Category 2 Serious Eye Damage/Eye Irritation: Category 2B | H227: Combustible liquid. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H320: Causes eye irritation. |
| Pictograms | Signal Word |
|  | DANGER |
| Precautionary Statements | |
| General | Response |
| P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read label before use. | P301+P310+P331: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do not induce vomiting. P302+P352: IF ON SKIN: wash with plenty of water. P304+P340: IF INHALED: Move person to fresh air and keep comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321: For specific treatments see FIRST AID section on SDS or label. P332+P313: IF skin irritation occurs: Get medical advice/attention. P337+P313: IF eye irritation persists: Get medical advice/attention. P362: Take off contaminated clothing. P370+P378: In case of fire: Use water or other suitable extinguishing media. |
| Prevention | Storage / Disposal |
| P210: Keep away from heat, sparks or open flames, no smoking. P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P264: Wash thoroughly after handling. P280: Wear protective gloves, clothing, eye protection, face protection. | P403+P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. P501: Dispose of contents/container in accordance with local/regional/national/international regulations. |

| Section 3: Composition / Information on Ingredients | | |
|---|------------|---------------------|
| Components | CAS-No | % Composition (w/w) |
| Pyrethrins | 8003-34-7 | 3.0% |
| Piperonyl butoxide | 51-03-6 | 30.0% |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | 9.0% |
| Calcium dodecylbenzenesulfonate | 70528-83-5 | 7.022 – 10.533% |
| Other ingredients | - | >50% |

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Section 4: First-Aid Measures

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| Eye Contact: | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Skin Contact: | IF ON SKIN: Wash with plenty of soap and water. If irritation or rash occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse. |
| Ingestion: | IF SWALLOWED: Immediately call a poison control center or doctor. Aspiration hazard if swallowed, do NOT induce vomiting. |
| Inhalation: | IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor for further treatment advice |
| Notes to Physician: | Contains petroleum distillate, vomiting may cause aspiration pneumonia. Treat symptomatically and supportively. |

Section 5: Fire-Fighting Measures

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| Suitable Extinguishing Media: | LARGE FIRE: Water spray, fog or regular foam. SMALL FIRES: Dry chemical, carbon dioxide, water spray or regular foam. |
| Unsuitable Extinguishing Media: | Avoid heavy hose streams. |
| Combustion Products: | Combustible liquid may produce carbon dioxide and/or carbon monoxide. |
| Unusual Fire and Explosion Hazards: | Combustible liquid. Containers may explode when heated. Liquid will float and may reignite on surface of water. |
| Protective Equipment for Firefighters: | Full chemical protection suits and boots (rubber or PVC) and self-contained breathing apparatus. Cordon the area to keep out all unnecessary personnel. Keep upwind. Use large quantities of water spray to fight fire. Cool containers / tanks with water spray. If safe to do, move product away from fire to secure area. Eliminate all possible sources of ignition and remove flammable material. |

Section 6: Accidental Release Measures

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| Personal Precautions: | Do not walk through spilled material. Ventilate enclosed areas. Wear appropriate personal protective equipment, avoid direct contact. Avoid inhalation, ingestion and contact with skin and eyes. |
| Emergency Procedures: | Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering. |
| Environmental Precautions: | Prevent undiluted spillage from entering sewers, basements or watercourses. |
| Methods and Material for Containment and Clean-Up: | Dike to collect large liquid spills. Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal. All equipment used when handling the product must be grounded and non-sparking. LARGE SPILLS: Dike far ahead of spill for later disposal. Stop leak if you can do it without risk. |

Section 7: Handling and Storage

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| Handling: | Keep away from fire. Avoid breathing fumes. Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. |
| Storage: | Do not store at temperatures exceeding 131°F. Store locked up. Store in a cool/low temperature, well ventilated dry place away from heat and ignition sources. Keep from freezing. |
| Incompatible Materials: | Heat, sparks, open flame. Strong acids, strong bases, and oxidizing agents. |

Section 8: Exposure Controls / Personal Protection

Components with Workplace Control Parameters

| Component | ACGIH | NIOSH | OSHA |
|------------------------------------|--|-------------------------------------|-------------------------------------|
| Pyrethrins | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ - 8 hours. | TWA: 5 mg/m ³ - 8 hours. |
| Engineering Controls: | Ensure adequate ventilation. Emergency eye wash stations / emergency showers should be available in the immediate vicinity of any potential exposure. | | |
| General Hygienic Practices: | Do not eat, drink or smoke during use. Wash hands immediately after handling the product. | | |
| Personal Protective Equipment | | | |
| Respiratory Protection: | Use NIOSH-approved air-purifying or supplied air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits. Recommended respirators are those with an organic vapor / acid gas cartridge. | | |
| Eye / Face Protection: | Chemical resistant goggles or face shield if splashes are expected to occur. | | |
| Hand Protection: | Rubber/latex/neoprene or other suitable chemical resistant gloves. Do not use leather or cotton gloves. | | |
| Skin / Body Protection: | Wear non-combustible clothing and footwear (PVC, neoprene, nitrile or natural rubber). | | |

Section 9: Physical and Chemical Properties

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|------------------------|-----------------------|------------------------|----------|-----------------------------|-----------|
| Appearance: | Amber colored liquid. | Odor: | Alcohol. | Odor Threshold: | NA |
| Physical State: | Liquid. | pH: | 5.18 | Specific Gravity: | 1.02 g/mL |
| Melting Point: | NA | Freezing Point: | NA | Boiling Point: | NA |
| Flash Point: | 152°F (67°C) | Flammability: | NA | Flammability Limits: | NA |

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|-------------------|----|--|----|----------------------------|---------------------|
| Vapor Pressure: | NA | Vapor Density: | NA | Solubility: | Insoluble. |
| Evaporation Rate: | NA | Auto-ignition Temperature: | NA | Decomposition Temperature: | SADT > 55°C (131°F) |
| Relative Density: | NA | Partition Coefficient n-octanol / water: | NA | Viscosity: | NA |

Section 10: Stability and Reactivity

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| Reactivity: | Non-reactive under normal handling and storage conditions. |
| Stability: | Stable under recommended storage conditions. |
| Conditions to Avoid: | Direct sunlight. Do not freeze. Excessive heat >131°F. Heat, sparks, open flame, other ignition sources, and oxidizing conditions. |
| Incompatible Materials: | Oxidizers. |
| Hazardous Decomposition Products: | Carbon dioxide and possibly carbon monoxide. |

Section 11: Toxicological Information

Acute Toxicological Data

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|-----------------------------|---|------------------|---------------------------|----------------------|----------------------|
| Oral LD50 Rat: | 2250 mg/kg | Dermal LD50 Rat: | >2000 mg/kg | Inhalation LC50 Rat: | >2.03 mg/L – 4 hours |
| Symptoms and Effects | | | | | |
| Condition | Acute Effects | | Chronic (Delayed) Effects | | |
| Eye Contact: | Causes eye irritation. | | None. | | |
| Skin Contact: | Causes skin irritation. | | None. | | |
| Inhalation: | No health effects are expected under normal conditions. | | None. | | |
| Ingestion: | Aspiration hazard small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema. | | None. | | |

Section 12: Ecological Information

| Ecotoxicity: | Component | Duration | Species | Value |
|--------------------------------|--|------------|-------------------|---------------|
| | Pyrethrins (3%) | | 96 hr LC50 | Rainbow trout |
| 96 hr LC50 | | | Sheepshead minnow | 0.016 mg/L |
| 96 hr NOEC | | | Fathead minnow | 0.0019 mg/L |
| NOEC | | | Sheepshead minnow | 0.0049 mg/L |
| NOEC | | | Water flea | 0.00086 mg/L |
| NOEC | | | Mysid shrimp | 0.0001 mg/L |
| 96 hr LC50 | | | Mysid shrimp | 0.0014 mg/L |
| 48 hr LC50 | | | Water flea | 0.0116 mg/L |
| Piperonyl butoxide (30%) | | 96 hr LC50 | Rainbow trout | 1.9. mg/L |
| | | 96 hr LC50 | Sheepshead minnow | 3.94 mg/L |
| | | NOEC | Fathead minnow | 0.04 mg/L |
| | | LOEC | Fathead minnow | 0.11 mg/L |
| | | LOEC | Water flea | 0.047 mg/L |
| | | 48 hr LC50 | Water flea | 0.51 mg/L |
| | | 48 hr LC50 | Mysid shrimp | 0.49 mg/L |
| | | NOEC | Water flea | 0.03 mg/L |
| Persistence and Degradability: | Pyrethrins have low persistence in the environment due to rapid breakdown in presence of UV light. | | | |
| Bioaccumulative Potential: | NA | | | |
| Mobility in Soil: | Pyrethrins are relatively immobile in soil. | | | |
| Results of PBT & vPvB: | NA | | | |
| Other Adverse Effects: | This product is toxic to aquatic organisms, including fish and invertebrates. | | | |

Section 13: Disposal Considerations


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| Waste from Residues and Unused Product: | Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations. |
| Contaminated Container Disposal: | Do not reuse or refill containers. Triple rinse empty containers with clean water. Clean and empty containers should be taken to an approved waste handling site for recycling or disposal. |

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Section 14: Transport Information

| UN Number | | UN Proper Shipping Name | Hazard Class (Subsidiary) | Packing Group | IATA | Marine Pollutant |
|----------------------|------|--|---------------------------|---------------|--------------------------------|------------------|
| DOT | 1993 | Combustible liquid, n.o.s. (Petroleum distillates) | 3 | III | Permitted for shipment by air. | Yes |
| TDG | 1993 | Combustible liquid, n.o.s. (Petroleum distillates) | 3 | III | | Yes |
| IMDG | 3082 | Environmentally Hazardous Substance, Liquid, n.o.s. (Pyrethrins, Piperonyl Butoxide) | 9 | III | | Yes |
| Special Precautions: | | NA | | | | |
| Shipping Placards: | |  | | | | |

Section 15: Regulatory Information

| TSCA Inventory List | | US EPA CERCLA Hazardous Substances | | Clean Water Act |
|---|-----|---|-------|-----------------|
| Distillates (petroleum), hydrotreated light | Yes | Distillates (petroleum), hydrotreated light | NA | NA |
| Calcium dodecylbenzenesulfonate | Yes | Calcium dodecylbenzenesulfonate | NA | NA |
| Piperonyl butoxide | Yes | Piperonyl butoxide | NA | NA |
| Pyrethrins | No | Pyrethrins | 1 lb. | NA |

SARA Title III

| | Sec. 302 TPQ. | Sec 304 RQ. | Sec 311 / Sec 312 Hazard Category | Sec 313 | Clean Air Act Threshold Qty. |
|---|---------------|-------------|---|---------|------------------------------|
| Distillates (petroleum), hydrotreated light | NA | NA | NA | NA | NA |
| Calcium dodecylbenzenesulfonate | NA | NA | NA | NA | NA |
| Piperonyl butoxide | NA | NA | NA | 1.0% | NA |
| Pyrethrins | 1 lb. | 1 lb. | Physical: Flammable Liquid Health: Skin corrosion or irritation; Eye corrosion or irritation; Asphyxiant | NA | NA |

*Hydrogen Peroxide Reportable Quantity only applies to concentrations > 52%

| | | | | | |
|------------------------------|-----------------|-----------------|---------------|----------|------------------|
| NFPA 704 Rating | Health: 1 | Flammability: 2 | Reactivity: 0 | Special: | None. |
| HMIS Rating | Health: 1 | Flammability: 2 | Physical: 0 | PPE: | Recommended. (H) |
| Uniform Fire Code (NFPA 400) | Not applicable. | | | | |

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| California Prop 65 | This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm. |
| FIFRA | This product is a registered pesticide with the United States Environmental Protection Agency and is subject to EPA labeling requirements under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). These requirements may differ from the classification criteria and hazard information required for a safety data sheet under the Global Harmonized Systems (GHS), and for workplace labels of non-pesticide chemicals. It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Always refer to product label for further precautionary information and use directions. |

Section 16: Other Information

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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