


# SAFETY DATA SHEET (SDS)

## PyClear

Form #:	SDS-099
Revision Date:	3/4/2021
Revision #:	03
Supersedes Date:	06/10/2019

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:	<b>BioSafe Systems, LLC</b> 22 Meadow Street   East Hartford, CT 06108	EPA Registration:	89459-40-70299
Telephone Number:	1-888-273-3088	<b>Emergency Number: 1-800-424-9300 (CHEMTREC)</b>	

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
	<b>DANGER</b>
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

<b>Eye Contact:</b>	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.
<b>Skin Contact:</b>	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.
<b>Ingestion:</b>	IF SWALLOWED: Immediately call a poison control center or doctor. Aspiration hazard if swallowed, do NOT induce vomiting.
<b>Inhalation:</b>	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
<b>Notes to Physician:</b>	Contains petroleum distillate, vomiting may cause aspiration pneumonia. Treat symptomatically and supportively.

## Section 5: Fire-Fighting Measures

<b>Suitable Extinguishing Media:</b>	LARGE FIRE: Water spray, fog or regular foam. SMALL FIRES: Dry chemical, carbon dioxide, water spray or regular foam.
<b>Unsuitable Extinguishing Media:</b>	Avoid heavy hose streams.
<b>Combustion Products:</b>	Combustible liquid may produce carbon dioxide and/or carbon monoxide.
<b>Unusual Fire and Explosion Hazards:</b>	Combustible liquid. Containers may explode when heated. Liquid will float and may reignite on surface of water.
<b>Protective Equipment for Firefighters:</b>	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

<b>Personal Precautions:</b>	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.
<b>Emergency Procedures:</b>	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering.
<b>Environmental Precautions:</b>	Prevent undiluted spillage from entering sewers, basements or watercourses.
<b>Methods and Material for Containment and Clean-Up:</b>	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

<b>Handling:</b>	Keep away from fire. Avoid breathing fumes. Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact.
<b>Storage:</b>	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.
<b>Incompatible Materials:</b>	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 <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> - 8 hours.	TWA: 5 mg/m <sup>3</sup> - 8 hours.
<b>Engineering Controls:</b>	Ensure adequate ventilation. Emergency eye wash stations / emergency showers should be available in the immediate vicinity of any potential exposure.		
<b>General Hygienic Practices:</b>	Do not eat, drink or smoke during use. Wash hands immediately after handling the product.		
Personal Protective Equipment			
<b>Respiratory Protection:</b>	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.		
<b>Eye / Face Protection:</b>	Chemical resistant goggles or face shield if splashes are expected to occur.		
<b>Hand Protection:</b>	Rubber/latex/neoprene or other suitable chemical resistant gloves. Do not use leather or cotton gloves.		
<b>Skin / Body Protection:</b>	Wear non-combustible clothing and footwear (PVC, neoprene, nitrile or natural rubber).		

## Section 9: Physical and Chemical Properties

<b>Appearance:</b>	Amber colored liquid.	<b>Odor:</b>	Alcohol.	<b>Odor Threshold:</b>	NA
<b>Physical State:</b>	Liquid.	<b>pH:</b>	5.18	<b>Specific Gravity:</b>	1.02 g/mL
<b>Melting Point:</b>	NA	<b>Freezing Point:</b>	NA	<b>Boiling Point:</b>	NA
<b>Flash Point:</b>	> 93.3 °C / > 200.0 °F	<b>Flammability:</b>	NA	<b>Flammability Limits:</b>	NA

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

### Section 10: Stability and Reactivity

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

### Section 11: Toxicological Information

#### Acute Toxicological Data

<b>Oral LD50 Rat:</b>	2250 mg/kg	<b>Dermal LD50 Rat:</b>	>2000 mg/kg	<b>Inhalation LC50 Rat:</b>	>2.03 mg/L – 4 hours
<b>Symptoms and Effects</b>					
<b>Condition</b>	<b>Acute Effects</b>		<b>Chronic (Delayed) Effects</b>		
<b>Eye Contact:</b>	Causes eye irritation.		None.		
<b>Skin Contact:</b>	Causes skin irritation.		None.		
<b>Inhalation:</b>	No health effects are expected under normal conditions.		None.		
<b>Ingestion:</b>	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
	Ecotoxicity:	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		
<b>Persistence and Degradability:</b>	Pyrethrins have low persistence in the environment due to rapid breakdown in presence of UV light.			
<b>Bioaccumulative Potential:</b>	NA			
<b>Mobility in Soil:</b>	Pyrethrins are relatively immobile in soil.			
<b>Results of PBT &amp; vPvB:</b>	NA			
<b>Other Adverse Effects:</b>	This product is toxic to aquatic organisms, including fish and invertebrates.			


### Section 13: Disposal Considerations

<b>Waste from Residues and Unused Product:</b>	Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
<b>Contaminated Container Disposal:</b>	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	UN3082	This material is not DOT regulated under 71.4 lbs	9	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.	<b>Physical:</b> Flammable Liquid <b>Health:</b> Skin corrosion or irritation; Eye corrosion or irritation; Asphyxiant		NA	NA
<b>NFPA 704 Rating</b>		<b>Health:</b> 1	<b>Flammability:</b> 2	<b>Reactivity:</b> 0	<b>Special:</b> None.	
<b>HMIS Rating</b>		<b>Health:</b> 1	<b>Flammability:</b> 2	<b>Physical:</b> 0	<b>PPE:</b> Recommended. (H)	
<b>Uniform Fire Code (NFPA 400)</b>		Not applicable.				
<b>California Prop 65</b>	This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.					
<b>FIFRA</b>	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	
<p><b>According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations</b></p> <p>To the extent of our knowledge, the information herein is accurate as of the date of this document. However, neither BioSafe Systems nor any of its affiliates make any warranty, expressed or implied, or accept any liability relating to the information or its use. The information is for use by technically skilled persons at their own discretion and risk. This is not a license or a patent. The user alone must finally determine suitability of any information or material for any contemplated use, the manner or use and whether any patents are infringed. Always read and follow label directions.</p> <p>Rev 3 3-4-2021 changed DOT number</p> <p>For additional information, call us toll-free at 1.888.273.3088 or visit <a href="http://www.biosafesystems.com">www.biosafesystems.com</a></p> <p>©2021 BioSafe Systems, LLC.</p>	
