

## SAFETY DATA SHEET

1. Identification:		
<b>Product Identifier:</b>	Shortstop 2SC	
<b>Other Means of Identification:</b>	EPA registration number 62097-34-82866	
<b>Manufactured for:</b>	Greenleaf Chemical, LLC 2352 Schaeffer Hills Drive Henderson, NV 89052 Tel: 702-324-2403	
<b>Emergency Phone Number:</b>	Chemtrec 1-800-424-9300 (24 hours)	
<b>Recommended Use:</b>	Plant growth regulator for trees and shrubs	
<b>Restrictions on Use:</b>	Keep out of reach of children	
2. Hazard(s) Identification (This product is classified as hazardous as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200):		
<b>Class/Category:</b>	Eye irritant: Category 2B Aquatic chronic: Category 3	
<b>Route of Exposure:</b>	Most likely exposure by Dermal or oral route	
<b>Hazards Not Otherwise Classified:</b>	None known	
<b>Signal word:</b>	WARNING	
<b>Symbol(s):</b>	None	
<b>Hazard Statements:</b>	H320 Causes eye irritation. H412 Harmful to aquatic life with long lasting effects	
<b>Precautionary Statements:</b>	Prevention: P264 Wash hands thoroughly after handling P273 Avoid release to the environment Response: P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P337+313 If eye irritation persists get medical advice / attention. P391 Collect spillage Storage: None assigned Disposal: P501 Dispose of contents/container to an approved waste disposal plant.	
3. Composition:		
This product contains the following components classified as hazardous under 29 CFR 1910.1200		
<b>CAS number:</b>	<b>Component:</b>	<b>Percent:</b>
76738-62-0	Paclobutrazol	22.3%
9084-06-4	Dispersant	3.5%
The remainder of the mixture is not required to be disclosed by 29 CFR 1910.1200.		
4. First Aid Measures:		
<b>Inhalation:</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice	
<b>Eyes:</b>	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:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice	
<b>Ingestion:</b>	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not	

	induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.				
<b>Symptoms/Effects:</b>	Acute: No available information Delayed: No available information				
<b>Indication of immediate medical attention and special treatment needed, if necessary:</b>	No available information				
<b>5. Fire Fighting Measures:</b>					
<b>Extinguishing Media:</b>	Suitable: Use CO <sub>2</sub> or chemical foam to extinguish. Unsuitable: Do not use high pressure water streams.				
<b>Specific Hazards Arising from the Chemical:</b>	This product will burn with flames if ignited. This product has a minimum ignition energy between 100 and 300 millijoules. Mechanical sparks, open flames, and certain hot surfaces can serve as ignition sources for this material. Eliminate the presence of mechanical sparks and other ignition sources where dust clouds of this material could form. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.				
<b>Protective Equipment and Precautions for Firefighters:</b>	Wear protective gloves/protective clothing/eye protection/face protection.				
<b>6. Accidental Release Measures:</b>					
<b>Personal Precautions, Protective Equipment and Emergency Procedures:</b>	Refer to Section 8 "Exposure controls/personal protection"				
<b>Methods for Containment and Clean-Up:</b>	Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil, or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible storage container. Once all material is cleaned up and placed in a disposal container, seal the container and arrange for disposition. See also Section 13. Disposal Considerations.				
<b>7. Handling and Storage:</b>					
<b>Precautions for Safe Handling:</b>	Use in a well-ventilated area.				
<b>Conditions for Safe Storage:</b>	Do not contaminate water, food or feed by storage or disposal. Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area. See also Section 10. Stability and Reactivity.				
<b>8. Exposure Controls/Personal Protection:</b>					
<b>Component Exposure Limits:</b>					
<b>Substance</b>	<b>OSHA PEL</b>		<b>Ca/OSHA PEL</b>	<b>NIOSH REL</b>	<b>ACGIH TLV</b>
	ppm	Mg/m <sup>3</sup>	8-hr TWA (ST) STEL (C) Ceiling	Up to 10 hr TW (ST) STEL (C) Ceiling A	8-hr TWA (ST) STEL (C) Ceiling
<b>No listed components</b>	-	-	-	-	-
<b>Appropriate Engineering Controls:</b>	No applicable information available.				
<b>Personal Protective Equipment:</b>	Eyes/Face: Wear suitable eye/face protection. Skin: Wear long sleeved shirt and long pants, socks, shoes, and gloves. Remove and wash contaminated clothing before reuse. Respiratory: A respirator is not normally required when handling this				

	substance.
<b>9. Physical and chemical properties:</b>	
<b>Appearance:</b>	Off-white/beige liquid
<b>Odor:</b>	Almond-like
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	7.26 (1% solution)
<b>Melting Point/Freezing Point:</b>	No data available
<b>Boiling Point:</b>	212°F
<b>Flash Point:</b>	above 212°F (100°C) (closed cup)
<b>Evaporation Rate:</b>	No data available
<b>Flammability/Limits:</b>	Not flammable LFL: not applicable UFL: not applicable
<b>Vapor Pressure:</b>	7.5 x 10(-9) mmHg @ 68°F
<b>Vapor Density:</b>	No data available
<b>Relative Density:</b>	1.068 g/ml at 68°F (20°C)
<b>Solubility (H<sub>2</sub>O):</b>	26 mg/l @ 68°F
<b>Partition Coefficient:</b>	No data available
<b>Auto-Ignition Temperature:</b>	No data available
<b>Decomposition Temperature:</b>	No data available
<b>Viscosity:</b>	99.8 to 531.0 cSt dependant on shear rate @ 68°F
<b>10. Chemical Stability and Reactivity Information:</b>	
<b>Reactivity:</b>	No applicable information available
<b>Chemical Stability:</b>	Stable under standard conditions (40-70°F)
<b>Possibility of Hazardous Reactions:</b>	No applicable information available
<b>Conditions to Avoid:</b>	None known
<b>Incompatible Materials:</b>	Oxidizing agents (e.g. chlorates, nitrates)
<b>Hazardous Decomposition Products:</b>	Can decompose at high temperatures forming toxic gas.
<b>11. Toxicological Information:</b>	
<b>Likely Routes of Exposure:</b>	Dermal and Oral
<b>Symptoms:</b>	Inhalation: No information available Eye: Mild, transient irritation Skin: No significant symptoms Ingestion: No information available
<b>Acute Toxicity:</b>	Oral: LD <sub>50</sub> Rat >2,000 mg/kg (EPA cat III) Inhalation: LC <sub>50</sub> Rat >250 mg/M <sup>3</sup> (EPA cat IV) Dermal: LD <sub>50</sub> Rat >4,000 mg/kg (EPA cat IV)
<b>Skin Corrosion/Irritation:</b>	Non-irritant (EPA cat IV)
<b>Serious Eye Damage/Eye Irritation:</b>	Slightly irritating (EPA cat III)
<b>Sensitization:</b>	Non-sensitizing
<b>Germ Cell Mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	None of the components of this product are listed as carcinogens by NTP, IARC or OSHA.
<b>Reproductive/Developmental Toxicity:</b>	Dose related increase in minor skeletal defects and evidence of fetotoxicity in rat studies (urogenital defects). No adverse effects seen on reproductive parameters or reproductive organs in a 2-generational rat study. Liver effects were noted at the highest dose level in the FO females and male and female offspring (active ingredient).
<b>Specific Target Organ Toxicity:</b>	Single Exposure: No data available Repeated Exposure: Evidence of liver toxicity in repeat dose rodent studies at high dose levels. (1250 ppm, 90 day

	and 2 year tests). No effects noted in rabbit studies. No adverse health effects are expected in humans at airborne levels below the occupational exposure limit.
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**12. Ecological Information:**

<b>Ecotoxicity:</b>			
	<b>Species:</b>	<b>Exposure Time</b>	<b>LC50/EC50/IC50</b>
	Fish	96 hr	LC50 23.6 ppm
	Daphnia	48 hr	EC50 33.2 ppm
	Bird (Bobwhite Quail)	n/a	LC50 >20,000 ppm
	Bee	n/a	LC50 >50µg
<b>Persistence and Degradability:</b>	Active ingredient is not readily biodegradable		
<b>Bioaccumulation Potential:</b>	Soil DT50 0.5-1.0 y in general; in calcareous clay loam (pH 8.8, 14% o.m), DT50<42D; in coarse sandy loam (pH 6.8, 4% o.m., DT50)>140 d. Stable in water. Mixes in water (after 24h).		
<b>Mobility in Soil:</b>	No data available.		
<b>Other Adverse Effects:</b>	None known		

**13. Disposal Considerations:**

<b>Disposal Instructions:</b>	Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance. CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.
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**14. Transport Information:**

<b>UN Proper Shipping Name:</b>	Not applicable
<b>Hazard Class:</b>	Not applicable
<b>UN Number:</b>	Not applicable
<b>Packaging Group:</b>	Not applicable
<b>Marine Pollutant:</b>	Not applicable
<b>NMFC number/class:</b>	101685/065 Plant growth inhibitor, modifier or regulator, NOIBN

**15. Regulatory Information:**

<b>SARA:</b> No reportable components							
<b>CERCLA:</b> No reportable components							
<b>TSCA:</b> All components of this product are either listed or are exempt on the TSCA inventory. The following components of this product are subject to the reporting requirements of Section 12(b) of TSCA: None							
<b>Component Analysis – State:</b> The following components appear on one or more of the following state hazardous substances lists:							
<b>Component</b>	<b>CAS</b>	<b>CA</b>	<b>MA</b>	<b>MN</b>	<b>NJ</b>	<b>PA</b>	<b>RI</b>
Propylene glycol	57-55-6				✓	✓	✓

Product: Shortstop 2SC  
 Issue Date: 5/7/20  
 Version: 4

<b>California Prop 65:</b>	No listings
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.	
<b>EPA signal word:</b>	CAUTION
Classifications under 40 CFR 156.63 are given in sections 9 and 11 where applicable	
<b>Precautionary Statements:</b>	<b>HAZARDS TO HUMANS AND DOMESTIC ANIMALS</b> <b>CAUTION.</b> Harmful if swallowed, absorbed through the skin, or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long sleeved shirt and long pants, socks, shoes, and gloves. Remove and wash contaminated clothing before reuse.
<b>Pictograms/Symbols:</b>	None
<b>16. Other Information:</b>	
<b>Issue Date/Version:</b>	5/7/20 version 4
<b>Supersedes:</b>	4/3/18 version 3