

## SAFETY DATA SHEET

<b>1. Identification:</b>		
<b>Product Identifier:</b>	Perlan®	
<b>Other Means of Identification:</b>	EPA registration number 62097-6-82917	
<b>Distributed by:</b>	Fine Americas, Inc. 1850 Mt. Diablo Blvd., Suite 405, Walnut Creek, CA 94596, USA Tel: 925-932-8800	
<b>Emergency Phone Number:</b>	Chemtrec 1-800-424-9300 (24 hours)	
<b>Recommended Use:</b>	Plant growth regulator solution for use on apples, non-bearing pears, and non-bearing sweet cherries.	
<b>Restrictions on Use:</b>	Keep out of reach of children	
<b>2. Hazard(s) Identification (This product is not classified as hazardous as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200):</b>		
<b>Class/Category:</b>	Not Classified	
<b>Route of Exposure:</b>	Most likely exposure routes are dermal and oral.	
<b>Hazards Not Otherwise Classified:</b>	None known	
<b>Signal word:</b>	None	
<b>Symbol(s):</b>	None	
<b>Hazard Statements:</b>	None assigned	
<b>Precautionary Statements:</b>	Prevention: None assigned Response: None assigned Storage: None assigned Disposal: None assigned	
<b>3. Composition:</b>		
This product contains the following components classified as hazardous under 29 CFR 1910.1200		
<b>CAS number:</b>	<b>Component:</b>	<b>Percent:</b>
8030-53-3	Gibberellins A <sub>4</sub> and A <sub>7</sub> (GA <sub>4</sub> /7)	1.8%
1214-39-7	6-BA	1.8%
77-92-9	Citric acid	0.3%
The remainder of the mixture is not required to be disclosed by 29 CFR 1910.1200.		
<b>4. First Aid Measures:</b>		
<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	

## 5. Fire Fighting Measures:

<b>Extinguishing Media:</b>	Suitable: Water mist, CO <sub>2</sub> , foam or dry powder. Unsuitable: High power water jet
<b>Specific Hazards Arising from the Chemical:</b>	At very high temperatures will decompose to form carbon, nitrogen, compounds and aldehydes.
<b>Protective Equipment and Precautions for Firefighters:</b>	Protective clothing must be worn.

## 6. Accidental Release Measures:

<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>	In case of spillage use absorbent materials, e.g. sand or sawdust. Isolate spilled material for safe disposal and collect in sealable poly-lined containers. Ventilate area. See also Section 13. Disposal Considerations.

## 7. Handling and Storage:

<b>Precautions for Safe Handling:</b>	Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
<b>Conditions for Safe Storage:</b>	Keep container tightly closed when not in use. Store below 75°F. See also Section 10. Stability and Reactivity.

## 8. Exposure Controls/Personal Protection:

Component Exposure Limits:					
Substance	OSHA PEL		Cal/OSHA PEL	NIOSH REL	ACGIH TLV
	ppm	Mg/m3	8-hr TWA (ST) STEL (C) Ceiling	Up to 10 hr TW (ST) STEL (C) Ceiling A	8-hr TWA (ST) STEL (C) Ceiling
No listed components	-	-	-	-	-
<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.				

## 9. Physical and chemical properties:

<b>Appearance:</b>	Clear colorless liquid
<b>Odor:</b>	Alcoholic
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	4.2 (1% solution)
<b>Melting Point/Freezing Point:</b>	No data available
<b>Boiling Point:</b>	368°F (187°C)
<b>Flash Point:</b>	222°F (106°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>	29.3 Pa @ 20°C (solvent) 5.5 X 10 <sup>-6</sup> Pa (6-BAP)
<b>Vapor Density:</b>	No data available
<b>Relative Density:</b>	1.04 g/ml
<b>Solubility (H<sub>2</sub>O):</b>	Soluble

Partition Coefficient:	-0.92 log P <sub>OW</sub> (solvent)		
Auto-Ignition Temperature:	743°C (395°C)		
Decomposition Temperature:	No data available		
Viscosity:	66.5 cSt at 68°F		
10. Chemical Stability and Reactivity Information:			
Reactivity:	No applicable information available		
Chemical Stability:	Stable in original containers for at least 2 years at ambient temperatures. (40-70°F)		
Possibility of Hazardous Reactions:	No applicable information available		
Conditions to Avoid:	Excessive heat		
Incompatible Materials:	Strong oxidizing agents		
Hazardous Decomposition Products:	No applicable information available		
11. Toxicological Information:			
Likely Routes of Exposure:	Most likely exposure by Dermal or oral route		
Symptoms:	Inhalation: Non-irritant Eye: Non-irritant Skin: Non-irritant Ingestion: No data available		
Acute Toxicity:	Oral:	LD <sub>50</sub> Rat >2,000 mg/kg	(EPA category III)
	Inhalation:	LC <sub>50</sub> Rat >5.21 mg/l	(EPA category IV)
	Dermal:	LD <sub>50</sub> Rat >2,000 mg/kg	(EPA category III)
Skin Corrosion/Irritation:	Non-irritant (rabbit)		(EPA category IV)
Serious Eye Damage/Eye Irritation:	Non-irritant (rabbit)		(EPA category IV)
Sensitization:	Non-sensitizing (guinea pig)		
Germ Cell Mutagenicity:	Not mutagenic (active ingredient)		
Carcinogenicity:	None of the components of this product are listed as carcinogens by NTP, IARC or OSHA.		
Reproductive/Developmental Toxicity:	No data available.		
Specific Target Organ Toxicity:	Single Exposure: No data available Repeated Exposure: No data available		
12. Ecological Information:			
Ecotoxicity:			
	Species:	Exposure Time	LC50/EC50/IC50
	Fish	96 hr	LC50 >100 mg/L
	Daphnia	48 hr	EC50 1,068 mg/L
	Algae	72 hr	EC50 796.6 mg/L
	Bird	48 hr	LD50 >2,000 mg/kg
	Bee	48 hr	LD50 >82 µg (oral) LD50 >100 µg (contact)
	Beneficials	7 day	>23,000 ml product/ha
	Earthworm		>1,000 mg product/kg soil dry weight
General – this product is expected to be non-hazardous to the environment			
Persistence and Degradability:	Degrades rapidly under biological conditions.		
Bioaccumulation Potential:	No data available.		
Mobility in Soil:	No data available.		
Other Adverse Effects:	None known		
13. Disposal Considerations:			
Disposal Instructions:	Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Container disposal: Non-refillable container. Do not reuse or refill this container. Triple		

	rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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 or reconditioning, 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.						
<b>14. Transport Information:</b>							
<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						
<b>15. Regulatory Information:</b>							
<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				✓	✓	✓
<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> Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with, eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.						
<b>Pictograms/Symbols:</b>	None						
<b>16. Other Information:</b>							
None.							
<b>Issue Date/Version:</b>	9/18/20 version 9						
<b>Supersedes:</b>	4/3/18 version 8						