

SAFETY DATA SHEET

1. Identification:		
Product Identifier:	Arrange	
Other Means of Identification:	EPA registration number 62097-54-82917	
Distributed by:	Fine Americas, Inc. 1850 Mt. Diablo Blvd., Suite 405, Walnut Creek, CA 94596, USA Tel: 925-932-8800	
Emergency Phone Number:	Chemtrec 1-800-424-9300 (24 hours)	
Recommended Use:	Plant growth regulator solution for experimental research purposes / trial use only	
Restrictions on Use:	Not registered for commercial sales, restricted to professionals authorized to conduct experimental field trials.	
2. Hazard(s) Identification (This product is classified as hazardous as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200) (by calculation and bridging to similar product(s)):		
Class/Category:	Eye Irritation category 2B	
Route of Exposure:	Most likely exposure by Dermal or oral route	
Hazards Not Otherwise Classified:	None	
Signal word:	WARNING	
Symbol(s):	None	
Hazard Statements:	H320 Causes eye irritation.	
Precautionary Statements:	Prevention: P264 Wash hands thoroughly after handling. 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. Storage: None assigned Disposal: None assigned	
3. Composition:		
This product contains the following components classified as hazardous under 29 CFR 1910.1200		
CAS number:	Component:	Percent:
8030-53-3	Gibberellins A ₄ and A ₇ (GA4/7)	0.95%
The remainder of the mixture is not required to be disclosed by 29 CFR 1910.1200.		
4. First Aid Measures:		
Inhalation:	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	
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:	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	
Ingestion:	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.	
Symptoms/Effects:	Acute: No available information Delayed: No available information	
Indication of immediate medical	No available information	

attention and special treatment needed, if necessary:				
5. Fire Fighting Measures:				
Extinguishing Media:	Suitable: Water (mist), foam, carbon dioxide or dry powder. Unsuitable: High power water jet			
Specific Hazards Arising from the Chemical:	May give rise to hazardous fumes in a fire. Products of combustion and decomposition: carbon monoxide and dioxide			
Protective Equipment and Precautions for Firefighters:	Wear protective gloves/protective clothing/eye protection/face protection.			
6. Accidental Release Measures:				
Personal Precautions, Protective Equipment and Emergency Procedures:	Refer to Section 8 "Exposure controls/personal protection".			
Methods for Containment and Clean-Up:	In case of spillage use absorbent materials. Isolate spilled material for safe disposal and collect in sealable poly-lined containers. Ventilate area. Clean contaminated area with water. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. See also Section 13. Disposal Considerations			
7. Handling and Storage:				
Precautions for Safe Handling:	Users should wash hands before eating, 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.			
Conditions for Safe Storage:	Keep containers tightly closed when not in use. Store below 75°F (24°C). See also Section 10. Stability and Reactivity.			
8. Exposure Controls/Personal Protection:				
Component Exposure Limits:				
Substance	OSHA PEL	Ca/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
No listed components	-	-	-	-
Appropriate Engineering Controls:	No applicable information available.			
Personal Protective Equipment:	Eyes/Face: Protective eyewear. For overhead exposure, wear chemical-resistant headgear. Skin: Long-sleeved shirt and long pants. Chemical-resistant gloves. Socks and shoes. Chemical-resistant apron when mixing or loading this product, or cleaning equipment. Respiratory: A respirator is not normally required when handling this substance.			
9. Physical and chemical properties:				
Appearance:	Clear colorless liquid			
Odor:	Alcoholic			
Odor Threshold:	No data available			
pH:	No data available			
Melting Point/Freezing Point:	No data available			
Boiling Point:	@356°F (180°C)			
Flash Point:	No data available			

Evaporation Rate:	No data available
Flammability/Limits:	Not flammable LFL: not applicable UFL: not applicable
Vapor Pressure:	No data available
Vapor Density:	No data available
Relative Density:	1.04 g/ml at 68°F (20°C)
Solubility (H₂O):	Soluble
Partition Coefficient:	No data available
Auto-Ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available

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:	None under normal conditions of storage and use.

11. Toxicological Information: (data from similar formulation / calculation as prescribed by 29 CFR 1910.1200, actual product not yet tested)

Likely Routes of Exposure:	Most likely exposure by Dermal or oral route	
Symptoms:	Inhalation: No data available Eye: Transient mild irritation Skin: Non-irritant Ingestion: No data available	
Acute Toxicity:	Oral: LD ₅₀ Rat >5,000 mg/kg	(EPA category IV)
	Inhalation: LC ₅₀ Rat >5.41 mg/l	(EPA category IV)
	Dermal: LD ₅₀ Rat >4,000 mg/kg	(EPA category III)
Skin Corrosion/Irritation:	Non-irritant (rabbit)	(EPA category IV)
Serious Eye Damage/Eye Irritation:	Transient mild irritation (rabbit)	(EPA category III)
Sensitization:	Non-sensitizing (guinea pig)	
Germ Cell Mutagenicity:	Not mutagenic	
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: (data from similar formulation / calculation as prescribed by 29 CFR 1910.1200, actual product not yet tested)

Ecotoxicity:		
Species:	Exposure Time	LC50/EC50/IC50
Fish	96 hr	LC50 >100 mg/L
Daphnia	48 hr	EC50 >100 mg/L
Algae	72 hr	EC50 >60 mg/L
Bee	48hr	LD50 (oral) 16.19µg/bee, (contact) 0.84µg/bee
Beneficials	7 day	>80 L product/ha
Earthworm	n/a	>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:	<p>Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.</p> <p>Container disposal: Nonrefillable 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.</p>						
14. Transport Information:							
UN Proper Shipping Name:	Not applicable						
Hazard Class:	Not applicable						
UN Number:	Not applicable						
Packaging Group:	Not applicable						
Marine Pollutant:	Not applicable						
NMFC number/class:	101685/065 Plant growth inhibitor, modifier or regulator, NOIBN						
15. Regulatory Information:							
SARA: No reportable components							
CERCLA:	No reportable components						
TSCA:	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						
Component Analysis – State:							
The following components appear on one or more of the following state hazardous substances lists:							
Component	CAS	CA	MA	MN	NJ	PA	RI
Propylene glycol	57-55-6				✓	✓	✓
California Prop 65:	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.							
EPA signal word:	CAUTION						
Classifications under 40 CFR 156.63 are given in sections 9 and 11 where applicable							
Precautionary Statements:	KEEP OUT OF REACH OF CHILDREN						
Pictograms/Symbols:	None						
16. Other Information:							
<p>Fine Agrochemicals Limited ("FINE") warrants that this Product conforms to the specifications on this label. To the extent consistent with applicable law, FINE makes no other warranties and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for a particular purpose. No agent of FINE or any other person is authorized to make any representation or warranty beyond those contained herein.</p> <p>It is impossible to eliminate all risks associated with this Product. Plant injury, lack of performance, or other unintended consequences may result because of factors such as abnormal weather conditions, use of the Product other than in strict accordance with this label's instructions, presence of other materials, the manner of application or other factors, all of which are beyond the control of FINE or the seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.</p>							

Product: Arrange
Issue Date: 2/12/19
Version: 1



To the extent consistent with applicable law: 1) FINE disclaims any liability whatsoever for special, incidental or consequential damages resulting from the handling or use of this Product and 2) FINE's liability under this label shall be limited to the amount of the purchase price or, at the election of FINE, the free replacement of the Product.

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Supersedes:	not applicable