Version: 5



SAFETY DATA SHEET

1. Identification:					
Product Identifier:	Collate [®]				
Other Means of Identification:	EPA registration number 85678-9-82917				
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:	For use on apples, blackberries, blueberries, cantaloupes, cherries, grapes, peppers, pineapple, sugarcane, tobacco, tomatoes, walnuts; for reducing lodging in barley and wheat.				
Restrictions on Use:	For commercial use or agricultural use only. Not intended for residential use. Keep out of reach of children.				
29 CFR 1910.1200):	uct is classified as hazardous as defined by OSHA Hazard Communication Standard,				
Class/Category:	Skin Corr 1C, Corrosive to metals 1				
Route of Exposure:	Primarily dermal and oral				
Hazards Not Otherwise Classified:	None				
Signal word: Symbol(s):	DANGER				
Hazard Statements:	Causes severe burns and eye damage (H314) May be corrosive to metals (H290)				
Precautionary Statements:	Prevention: Keep only in original container. (P234) Do not breathe fumes/gas/mist/vapours/spray (P260) Wash hands thoroughly after handling. (P264) Wear protective gloves/protective clothing/eye protection/face protection. (P280) Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+330+331) IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. (P303+361+353) IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+340) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. (P305+351+338) Immediately call a POISON CENTER/doctor (P310) Wash contaminated clothing before reuse. (P363) Absorb spillage to prevent material damage (P390) Storage: Store locked up (P405) Store in corrosive resistant container (P406) Disposal: Dispose of contents/container to an approved waste disposal plant. (P501)				



Issue Date: 10/18/16 Version: 5			Excellence in PGR Technology		
1	following com	ponents classified as hazardous under 2	9 CFR 1910.1200		
CAS number:		Component:	Percent:		
16672-87-0	Ethephon	•	21.7%		
The remainder of the mix	ture is not requ	ired to be disclosed by 29 CFR 1910.12	00.		
4. First Aid Measures:					
Inhalation:		Move person to fresh air. If person is r ambulance, then give artificial respirat if possible. Call a poison control cente advice	ion, preferably mouth-to-mouth		
Eyes:		Rinse cautiously with water for severa lenses if present and easy to do – con persists get medical advice / attention.	tinue rinsing. If eye irritation		
Skin:		Take off contaminated clothing. Rinse water for 15-20 minutes. Call a poison treatment advice	control center or doctor for		
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 attention and special tre needed, if necessary:	eatment	No available information			
5. Fire Fighting Measur	es:				
Extinguishing Media: Specific Hazards Arisin	g from the	when fighting fires involving Unsuitable: Water May produce gasses such as hydroger			
Chemical: Protective Equipment a	nd	and nitrogen. Full firefighting turn-out gear (Bunker g	ear) including self-contained		
Precautions for Firefigh		breathing apparatus with full face piece			
6. Accidental Release M Personal Precautions, F Equipment and Emerge Procedures:	Protective ncy	Refer to Section 8 "Exposure controls/p	·		
Methods for Containme Clean-Up:	nc and	to do so. Contain the spill to prevent fusurface water, or ground water. Clean Observe precautions in Section 8 of this unnecessary and unprotected personne SPILL: Absorb small spills with sand, vinert ingredients. Place material in a contained as clay or sand. Recover and corpossible for reuse or disposal. Allow also scrape up for disposal. After removal, thoroughly with water. Pick up wash lice for disposal. Minimize use of water to procontamination. See also Section 13. Disposal Consider.	urther contamination of soil, up spills immediately. s document. Keep el from entering. SMALL remiculite, or other absorbent ontainer for proper disposal. ent or impervious material ntain as much free liquid as bsorbed material to solidify and clean contaminated area quid with additional absorbent prevent environmental		
Other Information:		US Regulations may require reporting of See Section. 15 Regulatory Information quantities, if any.	of spills of hazardous materials.		
7 Handling and Storage		1			

	quantities, if arry.
7. Handling and Storage:	
Precautions for Safe Handling:	Use only in a well-ventilated area. Wear proper safety equipment

Version: 5



version. 5	1							
Conditions for Safe Storage:		specified in Section 8 when mixing, loading or otherwise handling concentrate. Wash hands before eating, drinking, chewinggum, using tobacco or using the toilet. Remove clothing if pesticide gets inside clothing. Then wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Do not reuse container. Keep pesticide in original container. Keep container tightly closed when not in use. Store in a locked storage area. Avoid cross						
			ion with other pesticid					
		storage. Store in a cool, dry place. Do not contaminate water, feed, or food by storage and disposal. Do not store diluted spray.						
			ection 10. Stability and		1 -7			
8. Exposure Controls/Persor	nal Prote	ction:	·					
Component Exposure Limits								
Substance	OSH	IA PEL	Cal/OSHA PEL	NIOSH REL	ACGIH TLV			
	ppm	Mg/m3	8-hr TWA	Up to 10 hr TW	8-hr TWA			
			(ST) STEL	(ST) STEL	(ST) STEL			
			(C) Ceiling	(C) Ceiling A	(C) Ceiling			
No listing								
Appropriate Engineering Con			ble information availal					
Personal Protective Equipme	ent:	Eyes/Face:		0 ,	eyewash or water			
				readily accessible				
		Skin:			hirt and long pants,			
				nt shoes plus socks				
				made of any water				
				resistant apron wh				
			equipment, mixing, or loading. For overhead exposure					
		wear chemical-resistant headgear. An emergency						
		shower or water supply should be readily accessible to work area.						
		Respiratory: Normally not required. If vapors or mists may exceed						
		acceptable levels, wear NIOSH approved air-purifying						
		respirator approved for pesticides.						
9. Physical and Chemical Pro	oportios		respirator approv	ed for pesticides.				
Appearance:	operties.	Translucen	t liquid					
Odor:		Minimal	it ilquiu					
Odor Threshold:		No data available.						
pH:		0.8 Determined in the undiluted form						
Melting Point/Freezing Point	•	No data available						
Boiling Point:	-	212°F (100°C)						
Flash Point:		Not applicable due to aqueous formulation						
Evaporation Rate:		No data available						
Flammability/Limits:		No data available						
		LFL: No data available						
		UFL: No data available						
Vapor Pressure:		< 0.013 hPa at 25°C						
Vapor Density:		Not applicable						
Relative Density:		No data available						
Solubility (H ₂ O):		Soluble						
Partition Coefficient:		No data available						
Auto-Ignition Temperature:		No data av						
Decomposition Temperature	:	No data available						
Viscosity:		No data available						
10. Chemical Stability and Re-	activity l	nformation:						
Reactivity:	,		ble information availa	ble.				
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Version: 5



Version: 5			xcellence in PGR Technology	
Chemical Stability:	Stable under normal handling and storage conditions (40-70°F)			
Possibility of Hazardous Reactions:	No applicable information			
Conditions to Avoid:	Avoid excessive heat, direct sunlight, and exposure to air. Keep containers sealed.			
Incompatible Materials:	Oxidizing agents and alkaline materials. Corrosive to iron, mild steel, aluminum and copper.			
Hazardous Decomposition	Hydrogen chloride and			
Products:	released during thermal decomposition. Reaction with alkaline			
	materials causes evolution of ethylene gas.			
11. Toxicological Information:				
Likely Routes of Exposure:	Most likely exposure by			
Symptoms:	Inhalation: No data available			
	Eye: Corrosive Skin: Moderate			
	Ingestion: No data avai	ilahla		
Acute Toxicity:	Oral: LD ₅₀ Rat >5		category IV)	
Notice Toxicity.	Inhalation: LC ₅₀ Rat >4		category IV)	
	Dermal: LD ₅₀ Rat >2		category III)	
Skin Corrosion/Irritation:	Moderate corrosion (rab	, 	category II)	
Serious Eye Damage/Eye Irritation:	Corrosive (rabbit)	(EPA	category I)	
Sensitization:	Non-sensitizing (guinea	pig)		
Germ Cell Mutagenicity:	No evidence of mutager			
Carcinogenicity:	None of the components of this product are listed as carcinogens by			
	NTP, IARC or OSHA.			
Reproductive/Developmental	At the highest doses, ethephon caused decreased pup body weight in			
Toxicity:	a two generation study in rats. No effects were observed on fertility,			
Specific Target Organ Toxicity:	gestation, mating, organ weights, or histopathology. Single Exposure: No data available			
Specific ranger organ roxicity.	Repeated Exposure: No data available			
12. Ecological Information:				
Ecotoxicity:				
Species:		Exposure Time	LC50/EC50/IC50	
Fish (Rainbow Trout)		96 hr	LC50 350 mg/L	
Fish (Bluegill)		96 hr	LC50 300 mg/L	
Bird (Bobwhite Quail)			LD50 >1,000 mg/kg	
Bird (Mallard Duck)	T		LD50 >6,000 ppm	
Persistence and Degradability:	No data available			
Bioaccumulation Potential:	No data available	J (9 1 99 16	1 1	
Mobility in Soil:	Ethephon has low to mounder aerobic conditions			
	a half-life ranging betwe		iaerobic conditions with	
Other Adverse Effects:	None known	5.1.1 to 50 days.		
13. Disposal Considerations:				
Of Disposal Sometanoner				
	Do not contaminate wat	ter, food or feed by stor	rage or disposal.	
Disposal Instructions:	Do not contaminate wat	•		

Version: 5



	store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Refer to the product label for additional and complete Container Handling instructions.						
14. Transport Information:							
UN Proper Shipping Name:	Corrosive liquid, a	acidic, orga	anic, N.C	D.S. (cont	tains Eth	ephon)	
Hazard Class:	8						
UN Number:	UN3265						
Packing Group:	III						
Marine Pollutant:	No applicable info	rmation a	vailable				
NMFC Number/Class:	101685/85						
15. Regulatory Information:	15. Regulatory Information:						
SARA TITLE III:							
311/312 HAZARD CATEGORY:	Immediate health	Immediate health (acute). Delayed health (chronic)					
313 TOXIC CHEMICALS:	None						
CERCLA:	Not applicable	Not applicable					
TSCA:	Exempted - solely for FIFRA regulated use						
Component Analysis – State:							
The following components appear on	The following components appear on one or more of the following state hazardous substances lists:						
Component	CAS	CA	MA	MN	NJ	PA	RI
No component listed							
California Prop 65:	Not listed						
This chemical is a pesticide product re	gistered by the Envir	onmental	Protection	on Agenc	y and is	subject to)
certain labeling requirements under fe							
criteria and hazard information require					ls of non	-pesticide	}
chemicals. Following is the hazard info	ormation as required	on the pe	sticide la	bel.			
EPA signal word:	EPA signal word: DANGER						
Classifications under 40 CFR 156.63 a							
Precautionary Statements:	DANGER. HAZA						
	Corrosive: Cause						
	when handling. H						
	not get in eyes o						inhale
		vapors, as this product will irritate mucous membranes.					
Pictograms/Symbols:	None						

16. Other Information:

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.

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.

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:	5/20/15 version 4