Version: 1



21.0-22.4%

SAFETY DATA SHEET

. Identification:					
Product Identifier:	Collate [®] 2L				
Other Means of Identification:	EPA registration number 228-660-82917				
Distributed by:	The state of the s	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				
Restrictions on Use:	Intended for commercial or agricultural children.	al use only. Keep out of reach o			
Hazard(s) Identification (This pro 29 CFR 1910.1200):	duct is classified as hazardous as defined by OS	HA Hazard Communication Standard,			
Class/Category:	Corrosive to metals, Category 1 Eye damage, Category 1 Skin irritation, Category 2 Acute toxicity oral, Category 4				
Route of Exposure:	Most likely exposure routes are dermal	and inhalation of spray.			
Environmental Hazards:	Hazardous to aquatic environment, acu Hazardous to aquatic environment, chro				
Hazards Not Otherwise Classified					
Signal word: Symbol(s):	DANGER				
Hazard Statements:	May be corrosive to metals. Harmful if	swallowed. Causes serious eve			
nazaru Statements.	damage. Causes skin irritation. Very to lasting effects.				
Precautionary Statements:	Keep only in original container. Wash t eat, drink or smoke when using this pro and eye protection. Avoid release to the	duct. Wear protective gloves e environment.			
	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice. Take off contaminated clothing and wash before reuse. Absorb spillage to prevent material damage. Collect spillage.				
	Store in corrosive resistant container wi	th a resistant inner liner.			
	Dispose of contents in accordance with local, state, and federal regulations.				
. Composition:					
	components classified as hazardous under	29 CFR 1910.1200			
CAS number:	Component:	Percent:			
10070 07 0	_	24 0 22 40/			

The remainder of the mixture is not required to be disclosed by 29 CFR 1910.1200. 4. First Aid Measures:

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Ethephon



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Inhalation:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.			
Eyes:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.			
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 for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.			
Symptoms/Effects:	Acute: No available information Delayed: No available information			
Indication of immediate medical attention and special treatment needed, if necessary:	Immediate medical attention is required for eye contact.			
5. Fire Fighting Measures:				
Extinguishing Media:	Use extinguishing media suitable for surrounding materials. Dry chemical, carbon dioxide, foam, water spray or fog. If water is used to fight fire, contain runoff, using dikes to prevent			
	contamination of water supplies. Dispose of fire control water later.			
Specific Hazards Arising from the Chemical:	May produce gases such as oxides of carbon and nitrogen.			
Protective Equipment and Precautions for Firefighters:	Firefighters should wear NIOSH approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.			
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:	Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.			
	Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.			
	Avoid creation of dusty conditions. Scrape up and place in appropriate closed container. Wash entire spill area with a detergent slurry, absorb and sweep into container for disposal. Decontaminate tools and equipment following clean-up.			
Other Information:	See also Section 13. Disposal Considerations. US Regulations may require reporting of spills of hazardous materials. See Section. 15 Regulatory Information for details on reportable quantities, if any.			
7. Handling and Storage:				
Precautions for Safe Handling:	Do not get in eyes or on clothing or skin. Users should wash hands			



	before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/Personal Protective Equipment (PPE) immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (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:	Store in original container and keep tightly closed. Store in a cool, dry place. Do not contaminate water, food, or feed by storage or disposal. See also Section 10. Stability and Reactivity.

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	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 Controls:		Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.						
Personal Protective Equipme	point of get Eyes/Face chemical gor water s Skin: To a long-sleet supply she Respirator acceptable cartridges General H work pract measures material: 1 tobacco p							

9. Physical and Chemical Properties:	
Appearance:	Clear liquid
Odor:	No data available
Odor Threshold:	No data available
pH:	1.9 – 2.1
Melting Point/Freezing Point:	No data available
Boiling Point:	No data available
Flash Point:	No data avaliable
Evaporation Rate:	No data available
Flammability/Limits:	No data available
	LFL: No data available
	UFL: No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
Relative Density:	1.106 g/ml
Solubility (H₂O):	Soluble
Partition Coefficient:	No data available



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Auto-Ignition Temperature:	No data available				
Decomposition Temperature:	No data available				
Viscosity:	1.9848 cSt (@ 20°C) and 1.183 cSt (@ 40°C)				
10. Chemical Stability and Reactivity I					
Reactivity:	No dangerous reaction known under conditions of normal use.				
Chemical Stability:	This material is stable under normal handling and storage conditions.				
Possibility of Hazardous Reactions:	Hazardous polymerization				
Conditions to Avoid:	Elevated temperatures and extreme humidity.				
Incompatible Materials:	Strong oxidizing agents and alkaline materials. Corrosive to metals				
Harandana Basanan asiti an	such as iron, aluminum, zinc, mild steel and copper. Under fire conditions may produce gases such as hydrogen chloride				
Hazardous Decomposition Products:			as nydrogen chioride		
	and oxides of carbon and nitrogen.				
11. Toxicological Information: Likely Routes of Exposure:	Dormal and inhalation of	coray			
Symptoms:	Dermal and inhalation of Inhalation: Low inhalation		icity studios		
Symptoms.	IIII alation. Low iiii alation	I toxicity based on tox	icity studies.		
	Eye: Severely irritating wi studies.	th possible damage b	pased on toxicity		
	Skin: Minimally toxic and moderately irritating based on toxicity studies.				
	Ingestion: Slightly toxic in		oxicity studies.		
Acute Toxicity:	Oral: Rat LD50: > 500 mg				
	Inhalation: Rat 4-hr LC50: 4.5 mg/L (from technical grade active				
	ingredient)				
	Dermal: Rat LD50: >2,0				
Skin Corrosion/Irritation:	Rabbit: Moderately irritating				
Serious Eye Damage/Eye Irritation:	Rabbit: Corrosive				
Sensitization:	Not a contact sensitizer in guinea pigs following repeated skin exposure. (from technical grade active ingredient)				
Corm Call Mutaganiaity	No available data	grade active ingredie	;iii)		
Germ Cell Mutagenicity: Carcinogenicity:	1	to otherhen may cau	eo cholinostoraco		
Carcinogementy.	Prolonged overexposure to ethephon may cause cholinesterase inhibition, body weight decreases and organ effects (thyroid, kidney and liver). Ethephon did not cause cancer in laboratory animal studies.				
Reproductive/Developmental	Ethephon caused decrea	sed pup body weights	s at the highest does in		
Toxicity:	a two generation study in				
	gestation, mating, organ v	weights or histopatho	logy		
Specific Target Organ Toxicity:	No available data.				
12. Ecological Information:					
Ecotoxicity:		T	1.050/5055		
Species:		Exposure Time	LC50/EC50/IC50		
Fathead Minnow		96 hr	88 mg/L		
Daphnia Daphnia		48 hr	54 ppm		
Bobwhite Quail			LD50 596 mg/kg		
Mallard Duck	Ethanban is stable to hyd	LD50 >5,000 ppm			
Persistence and Degradability:	Ethephon is stable to hydrolysis in acidic water, but does rapidly hydrolyze in neutral and alkaline environments with a half-life ranging from a few days to a few weeks. Ethephon is stable to photolysis in water with an estimated half-life of 139 days.				
Bioaccumulation Potential:	No data available				
Mobility in Soil:	Photodegradation on soil does not appear to be a significant route of dissipation. Ethephon degrades fairly rapidly in soil under aerobic and in water under anaerobic conditions with half-life ranging from 7 to 30				



	days. Ethephon is characterized as having moderate to low mobility in soil.						
Other Adverse Effects:	None known						
13. Disposal Considerations:	None known						
Disposal Instructions:	Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide is a violation of Federal law. Nonrefillable 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 or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.						
14. Transport Information:							
UN Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., (ETHEPHON)			ON)			
Hazard Class:	8						
UN Number:	UN3265						
Packing Group:	III						
Marine Pollutant:	No applicable information available						
NMFC Number/Class: 15. Regulatory Information:	101685/85						
SARA TITLE III: 311/312 HAZARD CATEGORY: 313 TOXIC CHEMICALS: CERCLA:	Acute health None Not applicable						
TSCA:	Exempted - solely f	or FIFF	A regula	ited use			
Component Analysis – State:		: 4	.4		4	lina.	
The following components appear on or							D.
Component	CAS	CA	MA	MN	NJ	PA	RI
No component listed California Prop 65:	Not listed						
This chemical is a pesticide product reg certain labeling requirements under fed criteria and hazard information required chemicals. Following is the hazard information required chemicals.	istered by the Environ eral pesticide law. The for safety data sheets mation as required on	ese reques, and fo	uirement or workp	s differ fro lace label	om the c	lassificat	ion
EPA signal word:	DANGER						
Classifications under 40 CFR 156.63 ar	e given in sections 9 a	and 11	where ap	plicable			
Precautionary Statements:	DANGER. Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Do not inhale vapors as this product will irritate mucous membranes.						
Pictograms/Symbols:	None						
16. Other Information:							
None							
Issue Date/Version:	3/1/21 V1						
Supersedes:	Not applicable						