Version: 2



SAFETY DATA SHEET

1 Identification:						
1. Identification:						
Product Identifier: Other Means of Identification:		Refine® 3.5L	7			
		EPA registration number 62097-48-82917	1			
Distributed by:		Fine Americas, Inc.	Creek CA 0/506 USA			
		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 for thinning and control of pre-harvest drop of				
Necommended Ose.		apples and pears, and for promoting return bloom of apples the				
		following season.				
Restrictions on Use:		Keep out of reach of children				
2. Hazard(s) Identification	n (This product	is classified as hazardous as defined by OSHA	Hazard Communication Standard,			
29 CFR 1910.1200):		•				
Class/Category:		Eye irritation, category 2B				
Route of Exposure:		Most likely exposure by Dermal or oral ro	oute			
Hazards Not Otherwise	Classified:	None				
Signal word:		WARNING				
Symbol(s):		None				
Hazard Statements:		H320 Causes eye irritation				
Precautionary Statemen	ts:	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 prese	ent and easy to do – continue			
		rinsing.				
		P337+313 If eye irritation persists get medical advice / attention.				
		Storage: None assigned				
		Disposal:				
		None assigned				
3. Composition:		, verile designed				
	followina comi	oonents classified as hazardous under 29	CFR 1910.1200			
CAS number:		Component:	Percent:			
61-31-4	1-Naphthale	Naphthaleneacetic Acid, Sodium Salt (NAA Na)				
68515-73-1	Alkylpolysac					
The remainder of the mixt	ure is not requ	ired to be disclosed by 29 CFR 1910.1200				
4. First Aid Measures:						
Inhalation:		Remove patient to fresh air, allow to rest and keep warm.				
Skin:		Remove contaminated clothing and wash before reuse. Wash skin				
		with soap and water for several minutes. Get medical attention if				
		symptoms arise and persist.				
Eyes:		Flush immediately with plenty of water for at least 15 minutes, keeping				
		eyelids open. Get medical attention if symptoms arise and persist.				
Ingestion:		DO NOT induce vomiting! Rinse mouth out and then drink plenty of				
		water. Get medical attention if discomfort occurs.				
Symptoms/Effects:		Acute: May cause mild, transient eye or skin irritation				
In the state of the second		Delayed: May cause mild, transient eye or skin irritation				
Indication of immediate medical		No available information				
attention and special treatment						
needed, if necessary:	201					
5. Fire Fighting Measures:						
Extinguishing Media:		Suitable: Water, foam, carbon dioxide	a a a alma massadan			

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	1	Unsuitable	· None			
Specific Hazards Arising from the		None know				
Chemical:		THORIGINION				
Protective Equipment and		Wear suital	ble protective clothing,	gloves, safety gogo	gles.	
Precautions for Firefighters:			p	9,, 9-9,	9	
6. Accidental Release Measu						
Personal Precautions, Protective		Refer to Se	ection 8 "Exposure cont	trols/personal prote	ection"	
Equipment and Emergency			•	-1 1		
Procedures:						
Methods for Containment and		On soil: Contain/absorb with non-combustible absorbent material (eg,				
Clean-Up:		sand, earth, vermiculite, chemical absorbent) and place in suitable,				
			ntainer for safe dispos			
		On water: N	None known, inform rel	evant authorities.		
		See also S	ection 13. Disposal Co	neideratione		
7 Handling and Storage		Oce also o	ection 13. Disposar Co	nsiderations.		
7. Handling and Storage: Precautions for Safe Handling:		Hoore abou	ıld wash handa hafara	aatina drinkina ah	owing gum uning	
Frecautions for Sale Handlin	y.		ıld wash hands before using the toilet. Remo			
			ets inside. Then wash			
			PE immediately after h			
			gloves before removing			
			and change into clean			
Conditions for Safe Storage:		Keep container tightly closed when not in use. Store in a cool, dry				
			tect from temperatures			
			reezing should occur, t		ntly to unify the	
			o not store diluted prod ection 10. Stability and			
			ection to. Otability and	reactivity.		
8 Exposure Controls/Person	nal Protec	tion:				
8. Exposure Controls/Persor Component Exposure Limits		tion:				
8. Exposure Controls/Persor Component Exposure Limits Substance	:	tion: A PEL	Cal/OSHA PEL	NIOSH REL	ACGIH TLV	
Component Exposure Limits	: OSH		Cal/OSHA PEL 8-hr TWA	NIOSH REL Up to 10 hr TW	ACGIH TLV 8-hr TWA	
Component Exposure Limits	:	A PEL	8-hr TWA (ST) STEL	Up to 10 hr TW (ST) STEL	8-hr TWA (ST) STEL	
Component Exposure Limits Substance	: OSH ppm	A PEL Mg/m3	8-hr TWA	Up to 10 hr TW	8-hr TWA	
Component Exposure Limits Substance No listed components	osh ppm	A PEL Mg/m3	8-hr TWA (ST) STEL (C) Ceiling -	Up to 10 hr TW (ST) STEL (C) Ceiling A	8-hr TWA (ST) STEL	
Component Exposure Limits Substance No listed components Appropriate Engineering Cor	ppm - ntrols:	A PEL Mg/m3 - No applical	8-hr TWA (ST) STEL (C) Ceiling - ole information availabl	Up to 10 hr TW (ST) STEL (C) Ceiling A - e.	8-hr TWA (ST) STEL (C) Ceiling -	
Component Exposure Limits Substance No listed components	ppm - ntrols:	A PEL Mg/m3 - No applical Not normal	8-hr TWA (ST) STEL (C) Ceiling - ble information availabl	Up to 10 hr TW (ST) STEL (C) Ceiling A - e. se of frequent or pro	8-hr TWA (ST) STEL (C) Ceiling - blonged use wear	
Component Exposure Limits Substance No listed components Appropriate Engineering Cor	ppm - ntrols:	A PEL Mg/m3 - No applical Not normal equipment	8-hr TWA (ST) STEL (C) Ceiling - ble information availabl ly necessary but in cas specified below. Alway	Up to 10 hr TW (ST) STEL (C) Ceiling A - e. se of frequent or pro	8-hr TWA (ST) STEL (C) Ceiling - clonged use wear	
Component Exposure Limits Substance No listed components Appropriate Engineering Cor	ppm - ntrols:	A PEL Mg/m3 - No applical Not normal equipment	8-hr TWA (ST) STEL (C) Ceiling - ble information availabl	Up to 10 hr TW (ST) STEL (C) Ceiling A - e. se of frequent or pro	8-hr TWA (ST) STEL (C) Ceiling - clonged use wear	
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Component Exposure Limits Substance No listed components Appropriate Engineering Cor	ppm - ntrols:	A PEL Mg/m3 - No applical Not normal equipment supplier of - Respirato	8-hr TWA (ST) STEL (C) Ceiling - ble information availabl ly necessary but in cas specified below. Alway	Up to 10 hr TW (ST) STEL (C) Ceiling A - e. se of frequent or proys check applicabil	8-hr TWA (ST) STEL (C) Ceiling - clonged use wear ity with your	
Component Exposure Limits Substance No listed components Appropriate Engineering Cor	ppm - ntrols:	A PEL Mg/m3 - No applical Not normal equipment supplier of - Respirato P-SL filter i	8-hr TWA (ST) STEL (C) Ceiling - ble information availabl ly necessary but in cas specified below. Alway protective equipment.	Up to 10 hr TW (ST) STEL (C) Ceiling A - e. se of frequent or proys check applicabil rticle filter such as less of material is lik	8-hr TWA (ST) STEL (C) Ceiling - clonged use wear ity with your	
Component Exposure Limits Substance No listed components Appropriate Engineering Cor	ppm - ntrols:	A PEL Mg/m3 - No applical Not normal equipment supplier of - Respirato P-SL filter i - Skin prote - Eye prote	8-hr TWA (ST) STEL (C) Ceiling - ble information availabl ly necessary but in cas specified below. Alway protective equipment. ry protection: Wear pa if exposure to high leve ection: Laboratory coat ction: Chemical goggle	Up to 10 hr TW (ST) STEL (C) Ceiling A - e. se of frequent or process of second applicabile of material is like or overalls. es or full face visor.	8-hr TWA (ST) STEL (C) Ceiling - colonged use wear ity with your EN143 fitted with ely.	
Component Exposure Limits Substance No listed components Appropriate Engineering Cor	ppm - ntrols:	A PEL Mg/m3 - No applical Not normal equipment supplier of - Respirato P-SL filter i - Skin prote - Eye prote - Hand prote	8-hr TWA (ST) STEL (C) Ceiling - ole information available ly necessary but in case specified below. Always protective equipment. ary protection: Wear past of exposure to high lever exection: Laboratory coate ction: Chemical goggle tection: Nitrile rubber of	Up to 10 hr TW (ST) STEL (C) Ceiling A - e. se of frequent or process of such applicabile of material is like or overalls. es or full face visor. r PVC gloves (Break)	8-hr TWA (ST) STEL (C) Ceiling - colonged use wear ity with your EN143 fitted with ely.	
Component Exposure Limits Substance No listed components Appropriate Engineering Cor	ppm - ntrols:	A PEL Mg/m3 - No applical Not normal equipment supplier of - Respirato P-SL filter i - Skin prote - Eye prote - Hand prot can vary de	8-hr TWA (ST) STEL (C) Ceiling - ble information availabl ly necessary but in cas specified below. Alway protective equipment. ry protection: Wear pa if exposure to high leve ection: Laboratory coat ction: Chemical goggle	Up to 10 hr TW (ST) STEL (C) Ceiling A - e. se of frequent or process of such applicabile of material is like or overalls. es or full face visor. r PVC gloves (Break)	8-hr TWA (ST) STEL (C) Ceiling - colonged use wear ity with your EN143 fitted with ely.	
Component Exposure Limits Substance No listed components Appropriate Engineering Cor	ppm - ntrols:	A PEL Mg/m3 - No applicate Not normal equipment supplier of - Respirato P-SL filter ir - Skin protesticate - Hand protestican vary de regularly)	8-hr TWA (ST) STEL (C) Ceiling - ole information available ly necessary but in case specified below. Always protective equipment. ary protection: Wear part of exposure to high lever ection: Laboratory coate ction: Chemical goggle tection: Nitrile rubber of epending on thickness	Up to 10 hr TW (ST) STEL (C) Ceiling A - e. se of frequent or proys check applicabil rticle filter such as lels of material is lik or overalls. es or full face visor. r PVC gloves (Bread, use and source. Compared to the co	8-hr TWA (ST) STEL (C) Ceiling - clonged use wear ity with your EN143 fitted with ely. ak-through times Change gloves	
Component Exposure Limits Substance No listed components Appropriate Engineering Cor	ppm - ntrols:	A PEL Mg/m3 - No applicate Not normal equipment supplier of - Respirato P-SL filter if the series of the series o	8-hr TWA (ST) STEL (C) Ceiling	Up to 10 hr TW (ST) STEL (C) Ceiling A e. se of frequent or proys check applicabil rticle filter such as less of material is lik or overalls. es or full face visor. r PVC gloves (Bread, use and source. Corink, or smoke while)	8-hr TWA (ST) STEL (C) Ceiling - clonged use wear ity with your EN143 fitted with ely. ak-through times Change gloves e using this	
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No listed components Appropriate Engineering Cor Personal Protective Equipme 9. Physical and chemical pro Appearance: Odor:	ppm - ntrols:	A PEL Mg/m3 - No applicated Not normal equipment supplier of - Respirator P-SL filter in Skin protection - Eye protection - Hand protection vary deregularly - General product. In before respiration of the shift Brown transpiration of the shift of the	8-hr TWA (ST) STEL (C) Ceiling - ole information available ly necessary but in case specified below. Always protective equipment. The protection: Wear part of exposure to high lever exition: Laboratory coate ction: Chemical goggle ection: Nitrile rubber of expending on thicknesses the hygiene: Do not eat, downwediately take off and use. Wash hands and att.	Up to 10 hr TW (ST) STEL (C) Ceiling A - e. se of frequent or proys check applicabil rticle filter such as lels of material is lik or overalls. es or full face visor. r PVC gloves (Bread, use and source. Corink, or smoke whill y contaminated clo	8-hr TWA (ST) STEL (C) Ceiling - colonged use wear ity with your EN143 fitted with ely. ak-through times Change gloves e using this othing and launder	
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13. Disposal Considerations:

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Melting Point/Freezing Point:	No data available			
Boiling Point:	> 212°F (100°C)			
Flash Point:	> 212°F (100°C) (closed cup)			
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:	1.03 g/ml			
Solubility (H ₂ O):	Miscible No data available			
Partition Coefficient:	No data available			
Auto-Ignition Temperature:	No data available			
Decomposition Temperature:	No data available			
Viscosity:	2.13 cSt at 68°F (20°C)			
10. Chemical Stability and Reactivity I				
Reactivity:	Stable under recommended storage and handling conditions			
Chemical Stability:	Stable under recommended storage and handling conditions			
Possibility of Hazardous	Stable under recommended storage and handling conditions			
Reactions:				
Conditions to Avoid:	Protect from high temperatures and sources of ignition.			
Incompatible Materials:	Avoid accidental contact with strong acidic or alkaline solutions or			
	oxidizing materials.			
Hazardous Decomposition	None known			
Products:				
11. Toxicological Information:				
Likely Routes of Exposure:	Contact with skin and eyes or by inhalation of spray			
Likely Routes of Exposure: Symptoms:	May cause skin or eye irritation			
Likely Routes of Exposure:	May cause skin or eye irritation Oral: LD ₅₀ Rat >2,000 mg/kg (EPA category III)			
Likely Routes of Exposure: Symptoms:				
Likely Routes of Exposure: Symptoms: Acute Toxicity:	$ \begin{array}{llllllllllllllllllllllllllllllllllll$			
Likely Routes of Exposure: Symptoms: Acute Toxicity: Skin Corrosion/Irritation:	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$			
Likely Routes of Exposure: Symptoms: Acute Toxicity: Skin Corrosion/Irritation: Serious Eye Damage/Eye Irritation:	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$			
Likely Routes of Exposure: Symptoms: Acute Toxicity: Skin Corrosion/Irritation: Serious Eye Damage/Eye Irritation: Sensitization:	$\begin{tabular}{lll} May cause skin or eye irritation \\ Oral: LD_{50} Rat >2,000 mg/kg & (EPA category III) \\ Inhalation: LC_{50} Rat >5.08 mg/l & (EPA category IV) \\ Dermal: LD_{50} Rat >2000 mg/kg & (EPA category III) \\ Non-irritant (rabbit) & (EPA category IV) \\ Moderately irritating (rabbit) & (EPA category III) \\ Non-sensitizing & (mouse) \\ \end{tabular}$			
Likely Routes of Exposure: Symptoms: Acute Toxicity: Skin Corrosion/Irritation: Serious Eye Damage/Eye Irritation: Sensitization: Germ Cell Mutagenicity:	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$			
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Likely Routes of Exposure: Symptoms: Acute Toxicity: Skin Corrosion/Irritation: Serious Eye Damage/Eye Irritation: Sensitization: Germ Cell Mutagenicity: Carcinogenicity: Reproductive/Developmental	May cause skin or eye irritation Oral: LD ₅₀ Rat >2,000 mg/kg (EPA category III) Inhalation: LC ₅₀ Rat >5.08 mg/l (EPA category IV) Dermal: LD ₅₀ Rat >2000 mg/kg (EPA category III) Non-irritant (rabbit) (EPA category IV) Moderately irritating (rabbit) (EPA category III) Non-sensitizing (mouse) No evidence of mutagenic effects None of the components of this product are listed as carcinogens by NTP, IARC or OSHA. No evidence of reproductive effects Single Exposure: No data available			
Likely Routes of Exposure: Symptoms: Acute Toxicity: Skin Corrosion/Irritation: Serious Eye Damage/Eye Irritation: Sensitization: Germ Cell Mutagenicity: Carcinogenicity: Reproductive/Developmental Toxicity: Specific Target Organ Toxicity:	$\begin{array}{llllllllllllllllllllllllllllllllllll$			
Likely Routes of Exposure: Symptoms: Acute Toxicity: Skin Corrosion/Irritation: Serious Eye Damage/Eye Irritation: Sensitization: Germ Cell Mutagenicity: Carcinogenicity: Reproductive/Developmental Toxicity: Specific Target Organ Toxicity: 12. Ecological Information:	May cause skin or eye irritation Oral: LD ₅₀ Rat >2,000 mg/kg (EPA category III) Inhalation: LC ₅₀ Rat >5.08 mg/l (EPA category IV) Dermal: LD ₅₀ Rat >2000 mg/kg (EPA category III) Non-irritant (rabbit) (EPA category IV) Moderately irritating (rabbit) (EPA category III) Non-sensitizing (mouse) No evidence of mutagenic effects None of the components of this product are listed as carcinogens by NTP, IARC or OSHA. No evidence of reproductive effects Single Exposure: No data available			
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Likely Routes of Exposure: Symptoms: Acute Toxicity: Skin Corrosion/Irritation: Serious Eye Damage/Eye Irritation: Sensitization: Germ Cell Mutagenicity: Carcinogenicity: Reproductive/Developmental Toxicity: Specific Target Organ Toxicity: 12. Ecological Information: Ecotoxicity: Based on the limited data set available, non-target organisms, including mamm Risks to terrestrial insects cannot be question.	May cause skin or eye irritation Oral: LD ₅₀ Rat >2,000 mg/kg (EPA category III) Inhalation: LC ₅₀ Rat >5.08 mg/l (EPA category IV) Dermal: LD ₅₀ Rat >2000 mg/kg (EPA category III) Non-irritant (rabbit) (EPA category IV) Moderately irritating (rabbit) (EPA category III) Non-sensitizing (mouse) No evidence of mutagenic effects None of the components of this product are listed as carcinogens by NTP, IARC or OSHA. No evidence of reproductive effects Single Exposure: No data available Repeated Exposure: No data available Repeated Exposure: No data available EPA believes that the naphthalene acetates risks are not of concern to als, birds, aquatic organisms, and non-endangered, non-target plants. antified, but the available data do not suggest a substantial potential for			
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Version: 2



Disposal Instructions:	Wastes resulting factors at an approcessite or at an approcessite or at an approcessite or resulting the mixed container for the mixed tank and drain container for application application. Repeat this or reconditioning, landfill, or incinerations. If burned	oved wasted it: tainer. Do requivalent of the remaining	not reuse not reuse at) promp g content conds af and recap oment or for 10 se two more e, or pun allowed	al facility. se or refill only after enter the flood. Shake a mix tare econds after times. State by State	this coremptying plication by begind for 10 sonk or store the first the firs	ntainer. T g. Triple ri n equipme s to drip. econds. I ere rinsate low begin fer for rec e of in a s	riple inse as ent or a Fill the our for s to ycling anitary	
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	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 produ TSCA inventory. The follow		luct are either listed or are exempt on the ving components of this product are juirements of Section 12(b) of TSCA:					
Component Analysis – State:								
The following components appear on				dous subs				
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	CAUTION						
		given in sections 9 and 11 where applicable						
Precautionary Statements:	KEEP OUT OF F	KEEP OUT OF REACH OF CHILDREN.						
Pictograms/Symbols:	None	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

Version: 2



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.

Issue Date/Version:	5/25/18 version 2
Supersedes:	2/1/18 version 1