

Product Name: Sinon A-star 250 SC Fungicide
APVMA Approval No: 85084 / 112256



Label Name:	Sinon A-star 250 SC Fungicide
Signal Headings:	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Constituent Statements:	250 g/L AZOXYSTROBIN
Mode of Action:	GROUP 11 FUNGICIDE
Statement of Claims:	For the control of various diseases of Grapes, Potatoes, Tomatoes, Cucurbits, Avocados, Mangoes, Passionfruit and Poppies, as per the Directions for Use.
Net Contents:	5L to 20L
Restrains:	DO NOT apply by air, except on potatoes.
Directions for Use:	
Other Limitations:	-
Withholding Periods:	Avocados: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION Cucurbits, Passionfruit, Tomatoes: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION

	<p>Grapes: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION</p> <p>Mangoes: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION</p> <p>Poppies: DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION</p> <p>Potatoes: NOT REQUIRED WHEN USED AS DIRECTED</p>
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Trade Advice:	<p>EXPORT OF TREATED PRODUCE</p> <p>Grapes While Maximum Residue Limits (MRLs) have been set in many major wine export destinations, some export destinations have not finalised MRL applications. For further information regarding export tolerances please contact your winery, Sinon Australia Pty Limited representative or the Australian Wine Research Institute.</p> <p>Other Crops While Maximum Residue Limits (MRLs) have been set in many major export destinations, it should be noted that MRLs or import tolerances may not be established in all export destinations. For further information regarding export tolerances please contact your export organisation or Sinon Australia Pty Limited representative.</p>
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GENERAL INSTRUCTIONS:

Application

DO NOT use concentration factors exceeding 4X when applying through low volume application equipment, except when applying Sinon A-star 250 SC Fungicide by air. In these cases adequate coverage of all plant surfaces is still required to achieve control of diseases.

Tree Crops and Vines

Dilute spraying: Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off. The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice. Add the amount of product specified in the Directions of Use table for each 100L of water. Spray to the point of run-off. The required dilute spray volume will change and the sprayer set-up and operation may also need to be changed, as the crop grows.

Concentrate spraying: Use a sprayer designed and set-up for concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of run off) and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume. Determine an appropriate dilute spray volume (see Dilute spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate. The mixing rate for concentrate spraying can then be calculated in the following way:

Example only

1. Dilute spray volume as determined above: for example 1000 L/ha
2. Your chosen concentrate spray volume: for example 500 L/ha
3. The concentration factor in this example is: $2 \times$ (ie $1000 \text{ L} \div 500 \text{ L} = 2$)
4. If the dilute label rate is 80 mL/100 L, then the concentrate rate becomes 2×80 ; that is 160 mL/100 L of concentrate spray.

The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows. For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

MIXING

Half-fill the spray tank with clean water and start agitation. Shake the closed Sinon A-star 250 SC Fungicide container. Whilst filling the remainder of the spray tank add the required amount of Sinon A-star 250 SC Fungicide, adding any tank-mix products last. Maintain agitation until spraying is complete. DO NOT leave the spray mix in the sprayer overnight.

COMPATABILITY/TANK MIXING

Sinon A-star 250 SC Fungicide may be mixed in the spray vat with any one of the following products: Ambush, Sinon Chloro 720 Fungicide, Captan WG, copper hydroxide, Dominex, Dipel DF, Karate, Larvin 375, Procymidone 500, Bifenthrin 80SC. A mixture of Sinon A-star 250 SC Fungicide with more than 1 of these products or with any other product may be ineffective or may cause serious damage.

The use of such a mixture is not recommended and therefore be entirely at the user's own risk. If tank mixtures are to be used observe all directions, precautions and limitations on all products to be used. As formulations of other manufacturers products are beyond the control of Sinon Australia Pty Limited, and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.

NOTE: On some tomato varieties, tank mixtures of Sinon A-star 250 SC Fungicide and Sinon Chlorpyrifos 500 Insecticide or Nitrofol or Supracide or Kelthane MF have been found to be phytotoxic. DO NOT tank mix these products with Sinon A-star 250 SC Fungicide. On some grape varieties, tank mixtures of Sinon A-star 250 SC Fungicide and Sinon Chlorpyrifos 500 Insecticide have been found to be phytotoxic. DO NOT mix Sinon A-star 250 SC Fungicide with Sinon Chlorpyrifos 500 Insecticide for use in grapes.

WARNING

Sinon A-star 250 SC Fungicide is extremely phytotoxic to certain apple varieties.

AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees.

DO NOT spray Sinon A-star 250 SC Fungicide where spray drift may reach apple trees. DO NOT spray when conditions favour drift beyond the area intended for application. Conditions that may contribute to drift include thermal inversions, excessive wind speed, certain sprayer nozzle/pressure combinations, small spray droplet size etc.

DO NOT use spray equipment that has been previously used to apply Sinon A-star 250 SC Fungicide to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity.

Resistance Warning:	<p>FUNGICIDE RESISTANCE WARNING</p> <p>GROUP 11 FUNGICIDE</p> <p>Sinon A-star 250 SC Fungicide Fungicide is a member of the Strobilurin and related products group of fungicides. For fungicide resistance management the product is a Group 11 fungicide. Some naturally occurring individual fungi resistant to the product and other Group 11 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by this product or other Group 11 fungicides, thus resulting in a reduction in efficacy and possible yield loss. Since the occurrence of resistant fungi is difficult to detect prior to use, Sinon Australia Pty Limited accepts no liability for any losses that may result from the failure of this product to control resistant fungi.</p>
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Precautions:	
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Protections:	<p>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT</p> <p>HIGHLY TOXIC TO AQUATIC LIFE. DO NOT contaminate dams, waterways or drains with the chemical or used containers.</p> <p>DO NOT apply under weather conditions or from spraying equipment which could be expected to cause spray drift on adjacent areas, particularly wetlands, waterbodies or watercourses.</p>
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Storage and Disposal:	<p>STORAGE AND DISPOSAL</p> <p>Store in closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.</p> <p>Triple rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site.</p> <p>If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.</p>
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	<p>This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible.</p> <p>Triple rinse container before disposal. Dispose of rinsate by adding to the spray tank. Do not dispose of undiluted chemicals on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at a drumMUSTER collection or similar container management site. The cap should not be replaced but may be taken separately.</p> <p>Refillable containers Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.</p>
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<p>Safety Directions:</p>	<p>SAFETY DIRECTIONS</p> <p>Will irritate the eyes. Avoid contact with eyes. Wash hands after use.</p> <p>When opening the container and preparing spray wear:</p> <ul style="list-style-type: none"> • cotton overalls, buttoned to the neck and wrist (or equivalent clothing). • elbow-length PVC gloves. <p>After each day's use, wash gloves and contaminated clothing.</p>
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<p>First Aid Instructions:</p>	<p>FIRST AID</p> <p>If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.</p>
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<p>First Aid Warnings:</p>	<p>-</p>
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DIRECTIONS FOR USE

TREE AND VINE CROPS			
Rate			Critical comments
In the following table, Tree and Vine Crops, all rates given are for dilute spraying. For concentrate spraying, refer to the Application section.			For all uses in the table Tree and Vine Crops: apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. When applying Sinon A-star 250 SC Fungicide through low volume application equipment, DO NOT use a concentrate factor greater than 4X. In these cases adequate coverage of all plant surfaces is still required to achieve control of diseases.
Crop	Disease	Rate /100 L OR Rate/ha	WHP
Avocados	Stem End Rot, Anthracnose	80 mL	7 days
			<p>Apply Sinon A-star 250 SC Fungicide in a preventative fungicide program containing fungicides from a different chemical group. For best results commence the disease control program with an approved fungicide from an alternative chemical group, then apply</p> <p>1 application of Sinon A-star 250 SC Fungicide during early fruit set. Follow with applications of an approved fungicide from a different chemical group. Apply 2 final applications of Sinon A-star 250 SC Fungicide at 14 to 28 day intervals with the final spray applied 7 days prior to harvest. Ensure thorough spray coverage.</p> <p>Resistance Management Disease control may be reduced if strains of pathogens less sensitive to Sinon A-star 250 SC Fungicide develop. DO NOT use Sinon A-star 250 SC Fungicide curatively. If consecutive applications of Sinon A-star 250 SC Fungicide are used they must be followed by at least the same number of applications of fungicide(s) from a different group(s) before Sinon A-star 250 SC Fungicide is used again in that crop in the current or following season.. DO NOT apply more than 2 consecutive applications of Sinon A-star 250 SC Fungicide. DO NOT start the disease control program with Sinon A-star 250 SC Fungicide.</p>
Grapes table, wine, dried	Powdery Mildew (<i>Uncinular necator</i>), Downy Mildew (<i>Plasmopara viticola</i>), Botrytis Bunch Rot † (<i>Botrytis cinerea</i>)	75 mL to 100 mL	14 days
			<p>Application Method and Rate Apply in a sufficient volume of water to achieve thorough coverage of all foliage and fruit. The volume of water required to achieve this will depend on the stage of vine growth and vigour. Ensure thorough coverage. Adjust spray nozzles to direct spray droplets to the canopy present. Apply the higher rate of application in the following circumstances:</p> <ol style="list-style-type: none"> Where humid conditions favour Powdery Mildew infection, particularly on susceptible varieties. At the start of the season when there has been a heavy carry over of Powdery Mildew infection (flag shoots are present). <p>Spray Timing and Interval Apply 2 or 3 consecutive applications at 10 to 16 day intervals at any time between early shoot growth and 14 days before harvest. Use the recommended shorter interval during periods when climatic conditions are favourable for disease infection.</p> <p>† Botrytis Bunch Rot Sinon A-star 250 SC Fungicide must not be used alone for Botrytis control at critical times such as 80 to 100% capfall and preharvest. It must be tank mixed with or substituted by a specific botryticide at these critical times. When Sinon A-star 250 SC Fungicide is used in a seasonal spray programme it will provide control of Botrytis additional to that of specific botryticides such as Sinon Chloro 720 Fungicide.</p> <p>Resistance Management Disease control may be reduced if strains of pathogens less sensitive to Sinon A-star 250 SC Fungicide develop. DO NOT use Sinon A-star 250 SC Fungicide curatively. As a precaution, DO NOT apply more than a total of 3 applications of Sinon A-star 250 SC Fungicide per crop in 1 season. If consecutive applications of Sinon A-star 250 SC Fungicide are used they must be followed by at least the same number of applications of fungicide(s) from a different group(s) before Sinon A-star 250 SC Fungicide is used again in that crop in the current or following season. DO NOT use Sinon A-star 250 SC Fungicide for disease control in grapevine nurseries.</p>

Mangoes	Stem End Rot, Anthracnose	80 mL	3 days	<p>Apply Sinon A-star 250 SC Fungicide in a preventative fungicide program containing fungicides from a different chemical group.</p> <p>For best results apply 1 to 2 applications of Sinon A-star 250 SC Fungicide at flowering and early fruit set, at no less than 14 day intervals. Follow with applications of an approved fungicide from a different chemical group. Further applications of Sinon A-star 250 SC Fungicide may be applied at 21 days and 3 to 7 days prior to harvest.</p> <p>Ensure thorough spray coverage.</p> <p>Resistance Management Disease control may be reduced if strains of pathogens less sensitive to Sinon A-star 250 SC Fungicide develop. DO NOT use Sinon A-star 250 SC Fungicide curatively. If consecutive applications of Sinon A-star 250 SC Fungicide are used they must be followed by at least the same number of applications of fungicide(s) from a different group(s) before Sinon A-star 250 SC Fungicide is used again in that crop in the current or following season. Apply a maximum of 3 applications of Sinon A-star 250 SC Fungicide per season. DO NOT apply more than 2 consecutive applications of Sinon A-star 250 SC Fungicide. DO NOT start the disease control program with Sinon A-star 250 SC Fungicide.</p>
Passion Fruit	Alternaria, Cladosporium	80 mL	1 day	<p>Apply Sinon A-star 250 SC Fungicide in a preventative fungicide program containing fungicides from a different chemical group.</p> <p>For best results apply 2 to 3 applications of Sinon A-star 250 SC Fungicide at 14 day intervals over flowering. Follow with applications of an approved fungicide from a different chemical group. Apply a further 1 to 2 applications of Sinon A-star 250 SC Fungicide finishing 1 day prior to harvest</p> <p>Ensure thorough spray coverage.</p> <p>Resistance Management Disease control may be reduced if strains of pathogens less sensitive to Sinon A-star 250 SC Fungicide develop. DO NOT use Sinon A-star 250 SC Fungicide curatively. DO NOT apply more than 1/3 of the total number of fungicide applications. For example, if the total number of fungicides applied to the crop is 9, DO NOT apply more than 3 applications of Sinon A-star 250 SC Fungicide. DO NOT exceed 5 applications of Sinon A-star 250 SC Fungicide per crop. DO NOT apply more than 2 consecutive applications of Sinon A-star 250 SC Fungicide. DO NOT start the disease control program with Sinon A-star 250 SC Fungicide.</p>

OTHER CROPS				
Crop	Disease	Rate /100 L or Rate/ha	WHP	Critical Comments
Cucurbits	Powdery Mildew (<i>Sphaerotheca fuliginea</i>), Downy Mildew (<i>Pseudoperonospora cubensis</i>)	80 to 120 mL	1 day	<p>Apply the higher rate when climatic conditions favour Powdery or Downy Mildew infection and in crops with large canopies.</p> <p>Application Apply in a sufficient volume of water to achieve thorough coverage of all foliage. The volume of water required to achieve this will depend on the stage of growth of the cucurbits. For dilute spraying (mL/100 L), an application volume of 300 L/ha is suggested where sprays are banded in the early part of the season, increasing to 1000 L/ha as a broadcast spray in a vigorous crop at full canopy.</p> <p>Spray Interval Consecutive applications should be applied at 7 to 14 day intervals, commencing soon after transplanting and continuing up to fruit maturity. Use the recommended shorter application interval in the following circumstances: 1. Under humid weather conditions which are favourable for Powdery Mildew or Downy Mildew or Gummy Stem Blight infection. 2. When there is rapid vegetative growth during the early part of the crop cycle.</p> <p>Resistance Management Disease control may be reduced if strains of pathogens less sensitive to Sinon A-star 250 SC Fungicide develop. Apply Sinon A-star 250 SC Fungicide in a protective spray program. DO NOT wait until disease levels have built up to make applications as this reduces the effectiveness of control and increases the risk of resistance development. As a precaution DO NOT apply more than 1/4 of the total fungicide sprays, up to a maximum of 4 sprays of Sinon A-star 250 SC Fungicide per crop. A maximum of 2 consecutive applications of Sinon A-star 250 SC Fungicide are to be applied. They must be preceded and followed by at least 2 applications of fungicide(s) from a different fungicide group(s) such as Sinon Chloro 720 Fungicide to control Downy Mildew and Gummy Stem Blight and Nimrod* to control Powdery Mildew, before Sinon A-star 250 SC Fungicide is used again in that crop. Where crops are grown successively alternation should continue between crops.</p>
	Gummy Stem blight (<i>Didymella bryoniae</i>)	120 mL/100L		

Poppies	Downy Mildew	75 mL/ha	6 weeks	<p>Apply Sinon A-star 250 SC Fungicide in a preventative fungicide program containing fungicides from a different chemical group.</p> <p>Apply Sinon A-star 250 SC Fungicide preventatively before disease symptoms appear.</p> <p>Ensure thorough spray coverage.</p> <p>Resistance Management Disease control may be reduced if strains of pathogens less sensitive to Sinon A-star 250 SC Fungicide develop. DO NOT use Sinon A-star 250 SC Fungicide curatively. Apply a maximum of 2 applications of Sinon A-star 250 SC Fungicide per crop.</p>
Potatoes	Early blight (Target Spot) (<i>Alternaria solani</i>)	300 to 400 mL/ha	-	<p>Apply the higher rates when climatic conditions favour Early Blight or Late Blight infection and in crops with large canopies.</p> <p>Application Sinon A-star 250 SC Fungicide may be applied by ground or aerial application equipment in potatoes. Aerial application may be used only for Early Blight (Target Spot) control. Apply in a sufficient volume of water to achieve thorough coverage of all foliage. The volume of water required to achieve this will depend on the stage of growth of the potatoes.</p> <p>Ground Application: A volume of 200 to 300 L/ha is suggested at the start of the season, increasing to 500 to 600 L/ha in a vigorous crop at full canopy.</p> <p>Aerial Application (Early Blight only): A volume of 30 to 40 L/ha is recommended.</p> <p>Spray Interval Consecutive applications should be applied at 7 to 14 day intervals at any time between early shoot growth and 14 days before harvest. Use the recommended shorter application interval in the following circumstances:</p> <ol style="list-style-type: none"> 1. Under humid weather conditions which are favourable for Early or Late Blight infection. 2. When there is rapid vegetative growth during the early part of the crop cycle. 3. At the first sign of Late Blight infection. <p>Resistance Management Disease control may be reduced if strains of pathogens less sensitive to Sinon A-star 250 SC Fungicide develop. Apply Sinon A-star 250 SC Fungicide in a protective spray program. DO NOT wait until disease levels have built up to make applications as this reduces the effectiveness of control and increases the risk of resistance development. As a precaution, DO NOT apply more than 1/3 of the total fungicide sprays per crop as Sinon A-star 250 SC Fungicide.</p> <p>A maximum of 3 consecutive applications of Sinon A-star 250 SC Fungicide are to be applied. They must be preceded and followed by at least 3 applications of fungicide(s) from a different fungicide group(s) such as Sinon Chloro 720 Fungicide, before Sinon A-star 250 SC Fungicide is used again in that crop. Where Late Blight infection has occurred it is recommended that single sprays of Sinon A-star 250 SC Fungicide be alternated with 2 sprays of Sinon Chloro 720 Fungicide or a fungicide(s) from another group(s). Where crops are grown successively alternation should continue between crops.</p>
	Late Blight (<i>Phytophthora infestans</i>)	500 to 600 mL/ha		<p>Apply once as an in-furrow spray at planting. Mount the spray nozzle so the spray is directed into the furrow as a 15-20cm band just before the seed is covered. Use the higher rate of Sinon A-star 250 SC Fungicide where higher levels of disease occur. Use the lower rate where lower levels of disease occur or where less disease control is required. Apply in 1-3 L of water /100m of row. Ensure the water volume used is not so high so as to wash off any seed treatments previously applied to seed. DO NOT apply Sinon A-star 250 SC Fungicide if conditions or seed quality favour beneficial rots as these diseases may be aggravated if seed comes into contact with additional moisture. DO NOT apply Sinon A-star 250 SC Fungicide if planting in hot, sandy soils as bacterial rots may be aggravated. DO NOT mix with any other products when applying as an in-furrow spray.</p>
	<p>Soil borne: Black Scurf (<i>Rhizoctonia solani</i>)</p> <p>Silver Scurf* (<i>Helminthosporium solani</i>)</p> <p>*Suppression only.</p>	5 to 10 mL/100m of row		

Tomatoes Except greenhouse	Early Blight (Target Spot) (<i>Alternaria solani</i>)	400 mL/ha or 40 mL/100 L	1 day	<p>Application Apply in a sufficient volume of water to achieve thorough coverage of all foliage. The volume of water required to achieve this will depend on the stage of growth of the tomatoes and the method of trellising which influences canopy volume. In the case of dilute spraying (mL/100 L) apply in the range of 400 to 500 L/ha after transplanting and increase to 800 to 1000 L/ha at full canopy. In the case of fully trellised tomatoes at full canopy, application volumes should be increased to 1500 L/ha to achieve these results with high volume spraying. For Late Blight and Sclerotinia control use the higher rates when climatic conditions are humid and mild, which favours disease infection.</p> <p>Spray Interval Consecutive applications should be applied at 7 to 14 day intervals commencing soon after transplanting and continuing up to fruit maturity. Use the recommended shorter application interval in the following circumstances: 1. Under humid weather conditions which are favourable for disease infection. 2. When there is rapid vegetative growth during the early part of the crop cycle.</p> <p>Resistance Management Disease control may be reduced if strains of pathogens less sensitive to Sinon A-star 250 SC Fungicide develop. Apply Sinon A-star 250 SC Fungicide in a protective spray program. DO NOT wait until disease levels have built up to make applications as this reduces the effectiveness of control and increases the risk of resistance development. As a precaution, DO NOT apply more than 1/3 of the total fungicide sprays per crop as Sinon A-star 250 SC Fungicide. A maximum of 3 consecutive applications of Sinon A-star 250 SC Fungicide are to be applied. They must be preceded and followed by at least 3 applications of fungicide(s) from a different fungicide group(s) such as Sinon Chloro 720 Fungicide, before Sinon A-star 250 SC Fungicide is used again in that crop. Where Late Blight infection has occurred it is recommended that single sprays of Sinon A-star 250 SC Fungicide be alternated with 2 sprays of Sinon Chloro 720 Fungicide or a fungicide(s) from another group(s). Where crops are grown successively alternation should continue between crops.</p>
	Late Blight (<i>Phytophthora infestans</i>), Sclerotinia (<i>Sclerotinia minor</i>)	500 mL/ha or 50 mL/100 L		

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.