

# Max 357<sup>®</sup>

Sequestering Buffer

Reg. No. L 9664 Act No. 36 of 1947 / Reg. Nr. L 9664 Wet Nr. 36 van 1947

**READ THE LABEL BEFORE USE**  
**KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

Group/Groep	Class B	Adjuvant/Bevorderingsmiddel
-------------	---------	-----------------------------

A WATER-SOLUBLE BUFFERING AGENT THAT SEQUESTERS CATIONS EG. CALCIUM AND MAGNESIUM FOR USE WITH GLYPHOSATE AND SULFOSATE HERBICIDES.

'N WATEROPLOSBARE BUFFERMIDDEL WAT KATIONE BV. KALSIMUM EN MAGNESIUM SEKWESTREER EN OM SAAM MET GLIFOSAAT EN SULFOSAAT ONKRUIDDODERS TE GEBRUIK.

Danger	Hazard Statements:
	<ul style="list-style-type: none"><li>• May be corrosive to metals.</li><li>• Causes skin irritation.</li><li>• Causes serious eye damage.</li><li>• Toxic if inhaled.</li></ul>
	Precautionary Statements:
	<ul style="list-style-type: none"><li>• Keep only in original container.</li><li>• Wash hands thoroughly after handling. Do not touch eyes.</li><li>• Wear protective gloves, protective clothing, eye protection and face protection.</li></ul>

#### Active Ingredient / Aktiewe Bestanddeel:

DTPMPA*.....	370.9 g/L.....	DTPMPA*
ATMPA**.....	116.5 g/L.....	ATMPA**
*Diethylene Triamine Penta (Methylene Phosphonic Acid)		*Diëteleen Triamien Penta (Metileen Fosforigsuur)
** Amino Tris (Methylene Phosphonic Acid)		**Amino Tris (Metileen Fosforigsuur)

UN 1760

Registration Holder / Registrasiehouer: N Laboratories (PTY) LTD • Reg No.: 2015/165672/07  
No. 144, 2nd Avenue, Modder East Orchards, Delmas, 2210 • Tel: +27 (0) 82 738 0080 • Fax: +27 (0) 86 547 6711  
Marketed and Distributed by / Bemerk en Versprei deur: MBFI (PTY) LTD • Reg No.: 2013/211882/07  
P.O. Box 1137, Delmas, Mpumalanga, 2210 • Email: orders@mbfi.co.za • Web: www.mbfi.co.za




Net Volume:  
**1 L**

IN CASE OF POISONING, CALL THE FOLLOWING EMERGENCY NUMBER / IN GEVAL VAN VERGIFTIGING, SKAKEL DIE VOLGENDE NOODNOMMER 082 446 8946 / 0861 555777

Max 357<sup>®</sup> is a registered trademark of N Laboratories (PTY) LTD / Max 357<sup>®</sup> is 'n geregistreerde handelsmerk van N Laboratories (EDMS) BPK.

**WARNINGS:**

- GHS Hazard Statements:

Pictograms and Signal word	Hazard Statements	
<b>Danger</b>   	H290	May be corrosive to metals.
	H315	Causes skin irritation.
	H318	Causes serious eye damage.
	H331	Toxic if inhaled.

- Relevant Substance:

Name	CAS No.	Weight (%)
Amino Tris (Methylene Phosphonic Acid)	6419-19-8	11.7
Diethylene Triamine Penta (Methylene Phosphonic Acid)	15827-60-8	37.0

- Observe all warnings that apply to the product(s) with which Max 357® is to be used.
- This product has low toxicity to fish and toxic to aquatic invertebrates. Do not apply directly to open water sources.
- Do not use if pH is below 4.

Although this adjuvant has been extensively tested under a large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal climatic and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the adjuvant concerned due to failure of the user to follow the label instructions or the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

**PRECAUTIONS:****• GHS Precautionary Statements:**

P234	Keep only in original container.
P261	Avoid breathing mist/spray.
P264 P265 P280	Wash hands thoroughly after handling. Do not touch eyes. Wear protective gloves, protective clothing, eye protection and face protection.
P271	Use only outdoors or in a well-ventilated area.
P302 P352	IF ON SKIN: Wash with plenty of water.
P304 P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 P354 P338 P317	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get emergency medical help.
P332 P317	If skin irritation occurs: Get medical help.
P362 P364	Take off contaminated clothing and wash it before reuse.
P390	Absorb spillage to prevent material damage.

- Do not eat, drink or smoke whilst mixing or applying.
- Wash hands and face before eating, drinking, smoking or using the toilet.
- Avoid spray drift onto adjacent crops, grazing, rivers and dams.
- Clean applicators before using for other remedies and ensure disposal of wash water does not contaminate crops, grazing, rivers, dams and water sources.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils during handling, storage or disposal.
- Triple rinse the empty container: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter, rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

**DIRECTIONS FOR USE:**

- SHAKE BEFORE USING.
- Use only as indicated on this label.

Max 357® is a buffering and sequestering agent which should be mixed with water in the tank to buffer pH of the water solution to required levels, and sequester cations i.e. calcium and magnesium which will improve water quality.

Max 357® increases the rate of uptake and transport of the herbicides in the plant and helps prevent alkaline hydrolysis of pH sensitive herbicides.




**Mixing:** Fill the spray tank with water to about half of the total spray volume required. Start agitation and add the required amount of Max 357® to stabilize the pH of the solution required. Then add the agricultural chemical to the tank mixture. Continue mixing and agitation while filling the spray tank to the required spray volume. Maintain sufficient agitation during application to ensure uniformity of the spray mix. Do not allow water or spray mixture to back-siphon into the water source.

If spraying and agitation must be stopped before the spray tank is empty, settled materials must be re-suspended before spraying is resumed. A back flow sparger agitator at the bottom of the tank is particularly useful for this purpose.

If a water analysis is available giving the bicarbonate levels or alkalinity of the water, expressed as mg/L CaCO<sub>3</sub>, the following is recommended:

Water Hardness	Dosage/100 L Water	Remarks
0 to 60 mg/L	10-15 ml	Keep in mind that the pH is not less than 4.0.
61 to 120 mg/L	15-25 ml	
121 to 180 mg/L	25-35 ml	
High 180 mg/L	35-100 ml	

**WAARSKUWINGS:**• **GHS-Gevaarstellings:**

Piktogramme en Seinwoord	Gevaarstellings	
<b>Gevaar</b>   	H290	Mag korrosief vir metale wees.
	H315	Veroorsaak velirritasie.
	H318	Veroorsaak ernstige oogskade.
	H331	Giftig indien ingeasem.

• **Relevante Bestandele:**

Naam	CAS Nr.	Gewig (%)
Amino Tris (Metileen Fosforigsuur)	6419-19-8	11.7
Dietileen Triamien Penta (Metileen Fosforigsuur)	15827-60-8	37.0

- Let op alle waarskuwings wat van toepassing is op die produk(te) waarmee Max 357® gebruik gaan word.
- Hierdie produk het lae toksisiteit vir visse en giftig vir ongewerwede waterdiere. Moet nie direk op oop waterbronne toedien nie.
- Moet nie gebruik as pH onder 4 is nie.

Alhoewel hierdie bevorderingsmiddel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale klimaats- en bergingstoestande; kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid van skade aan gewasse, die omgewing of vir die nadelige effek op mens of dier of vir 'n gebrek aan prestasie van die bevorderingsmiddel as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in die geval van enige onsekerheid.

**VOORSORGMATREËLS:****•GHS-Voorsorgverklarings:**

P234	Hou slegs in oorspronklike houer.
P261	Vermý inaseming van mis/sproei.
P264 P265 P280	Was hande deeglik na hantering. Moet nie aan oë raak nie. Dra beskermende handskoene, beskermende klere, oogbeskerming en gesigbeskerming.
P271	Gebruik slegs buite of in 'n goed geventileerde area.
P302 P352	INDIEN OP DIE VEL: Was met baie water.
P304 P340	INDIEN INGASEMING: Verwyder persoon na vars lug en hou gemaklik om asem te haal.
P305 P354 P338 P317	INDIEN IN OË: Spoel onmiddellik uit met water vir 'n paar minute. Verwyder kontaklense indien teenwoordig en maklik om te doen. Gaan voort met spoel. Kry mediese noodhulp.
P332 P317	Indien velirritasie voorkom: Kry mediese hulp.
P362 P364	Trek besoedelde klere uit en was dit voor hergebruik.
P390	Absorbeer gemors om materiële skade te voorkom.

- Moet nie eet, drink of rook tydens vermenging of toediening nie.
- Was hande en gesig voordat jy eet, drink, rook of die toilet gebruik.
- Verseker dat sproei nie wegdryf na aangrensende gewasse, weiding, riviere of damme nie.
- Was toerusting voordat dit gebruik word vir ander middels en verseker dat die waswater wat weggegooi word nie gewasse, weiding, riviere, damme of waterbronne besoedel nie.
- Voorkom die besoedeling van kos, voer, drinkwater en eetgerei tydens hantering, berging en vernietiging.
- Spoel leë houer drie keer as volg: Keer die leë houer oor die spuit- of mengtenk om en dreineer vir minstens 30 sekondes nadat die vloei tot 'n gedrup verminder het. Spoel daarna die leë houer drie keer na mekaar met een kwart van die houervolume vars water en giet die spoelwater in die spuittenk of mengtenk oor. Kap gate in die drie-keer gespoelde houer waarna dit aan 'n goedgekeurde versamelaar of verwerker oorhandig moet word ([www.crop-life.co.za](http://www.crop-life.co.za)). Moet nie die houer begrawe, verbrand of aan enige ander partye skenk wat dit as houer vir voedsel of drinkgoed mag gebruik nie. Voorkom die besoedeling van kos, voer, drinkwater en eetgerei tydens hantering, berging en vernietiging.

**GBRUIKSAANWYSINGS:**

- SKUD VOOR GEBRUIK.
- Gebruik slegs soos aangedui op hierdie etiket.

Max 357® is 'n buffer- en sekwestrerende middel wat met water in die tenk gemeng moet word om die pH van die wateroplossing tot die vereiste vlak te buffer en om katione te bind d.w.s. kalsium en magnesium wat die watergehalte sal verbeter.

Max 357® verhoog die opname en vervoer van onkruidodders in die plant en help om alkaliese hidrolise van pH-sensitiewe onkruidodders te voorkom.

**Meng:** Vul die spuittenk met water tot omtrent die helfde van die totale spuitvolume wat benodig word. Begin roer en voeg die benodigde hoeveelheid Max 357<sup>®</sup> by om die pH van die mengsel te stabiliseer tot die verlangde pH. Voeg dan vereiste hoeveelhede onkruid-, swam- en insekdoder of blaarvoeding by die spuittenk. Hou aan met meng en roer terwyl die spuittenk gevul word tot by die vereiste volume. Handhaaf genoegsame vermenginggedurende toediening om eenvormigheid van spuitmengsel te verseker. Moenie water of spuitmengsel toelaat om terug te loop in die waterbron in nie.

Indien die spuit en roeraksie onderbreek moet word voordat die spuittenk leeg is, moet die materiale wat afgesak het eers weer deeglik gemeng word voordat bespuiting hervat word. 'n Terugvloeiopp met sywaartse uitlate op die bodem van die tenk is besonder handig vir hierdie doel.

Indien die waterontleding beskikbaar is wat die bikarbonaat vlakke of alkaliniteit van die water aandui, uitgedruk as mg/L CaCO<sub>3</sub>, word die volgende aanbeveel:

<b>Waterhardheid</b>	<b>Dosis/100 L Water</b>	<b>Opmerkings</b>
0 tot 60 mg/L	10-15 ml	Hou ingedagte dat die pH nie minder as 4.0 moet wees nie.
61 tot 120 mg/L	15-25 ml	
121 tot 180 mg/L	25-35 ml	
Meer as 180 mg/L	35-100 ml	