



# SODIUM MOLYBDATE SOLUTION

## 11.7 % Molybdenum (Mo)

Sodium Molybdate Solution is a 30% w/w solution of Sodium Molybdate (39% Mo). It has a Specific Gravity of 1.3. Sodium Molybdate Solution is sprayed onto fertilisers such as SuPerfect® at Incitec Pivot Fertilisers' Distribution Centre at Newcastle so that molybdenum can be applied to legume-based pastures. It is used at two rates, 0.025 and 0.05% Mo.

Table 1: Sodium Molybdate solution addition rates.

Molybdenum concentration (% Mo)	Sodium Molybdate solution addition rate	
	kg/t	L/t
0.025	2.15	1.65
0.05	4.3	3.3

Molybdenum plays an important role in legume nodulation. Rhizobium bacteria that live in the nodules attached to legume roots have approximately a tenfold higher requirement for molybdenum than that of the host plant. Deficiency is most likely to occur on acid (low pH) soils.

Typical molybdenum application rates in pasture are 25 – 100 g/ha Mo. Repeat applications may be required as frequently as every 3 to 4 years or as infrequently as once every 8 to 10 years. Frequency of application depends on; soil type, rainfall, pasture productivity and the rate of molybdenum applied.

The most requested molybdenum concentration is 0.025% Mo. The higher concentration (0.05% Mo) is used with lower application rates e.g., 100 kg/ha. The amount of molybdenum (g/ha Mo) applied in products containing 0.025% and 0.05% Mo at various application rates is shown in the following table.

Table 2: Amount of molybdenum (g/ha Mo) applied in molybdenum fortified fertilisers.

Molybdenum Concentration (% Mo)	Fertiliser Application Rate (kg/ha)		
	125	250	500
0.025	31	63	125
0.05	63	125	-

In addition to pasture, molybdenum may also be required in grain legumes and in some vegetable crops. In vegetable crops that are susceptible to molybdenum deficiency, it is recommended that molybdenum be applied as a foliar spray rather than to the soil.

One or two foliar applications of molybdenum can be incorporated into crop fertility / crop protection programs.

Foliar applications of molybdenum are effective at supplying crop requirements as quantity required is small and molybdenum is mobile in plants. Molybdenum may also be applied as a seed dressing as molybdenum trioxide.

## FURTHER READING

These “Use Directions” should be read in conjunction with the Incitec Pivot “Molybdenum” Agritopic.

## SAFETY DIRECTIONS

Refer to the Safety Data Sheet (SDS) for more detailed safety advice. Before use, read the Product Label and the SDS. Use safe work practices and avoid contact with the eyes and skin. Avoid ingestion and inhaling dust. Protective clothing, eyewear and dust masks should always be used when dealing with this product. Observe good personal hygiene, including washing hands after use. Avoid loss of fertiliser to waterways.

## WARNING

This document contains information of a general nature. Before using fertiliser seek independent agronomic advice. Fertiliser programs may need to be varied depending on the plants being grown, climatic and soil conditions, application methods, irrigation, agricultural and livestock management practices, the soil's fertility, and cultural practices. ('Unforeseen Elements')

Fertiliser may burn and/or damage crop roots or foliage. Foliar burn to the leaves, fruit or other plant parts is most likely to occur when fertilisers are foliar applied at high concentrations and/or on a regular basis, different products are mixed and sprayed together at cumulatively high rates, the water is of poor quality, or the spray is applied under hot dry conditions, e.g. in the heat of the day.

Fertiliser and supplements may affect animal health. Seek independent advice before using any supplements in livestock rations.

## DISCLAIMER

As Unforeseen Elements are beyond the control of Incitec Pivot Limited, in no event Incitec Pivot Limited and its related bodies corporate be liable or accept any responsibility whatsoever for any direct, indirect, punitive, incidental, special or consequential damages (including but not limited to loss of revenue, crops and livestock), in respect of the illness, injury or death of a person, damage to property (including of a third party), or any other loss whatsoever arising out of or connected with the use or misuse of this fertiliser, or its transport, storage, handling or application. Where Incitec Pivot Limited and its related bodies corporate's liability cannot be lawfully excused, it and its related bodies corporate's liability shall be limited to the replacement of, or cost of the fertiliser supplied. The buyer accepts and uses this product subject to these conditions.

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