



SulSync® N37

Polymer Sulphur Coated slow release Urea

3 Months

Product Specification

Nitrogen	37%
Sulphur	15%
Moisture Content	Max 1%
Granule Colour	Yellow
Granule Size	2 to 4.5 mm
Dissolution Rate <i>(In first seven days)</i>	15 to 28%
Longevity in Soil <i>(At 28 degree C)</i>	3 months
Release Pattern	Linear

In an attempt to have nitrogen nutrition available when a crop begins to break dormancy, growers normally apply urea at higher rate than actually required. Unfortunately, there is the potential for serious losses due to the fact that urea is lost via de-nitrification, leaching or ammonia volatilization. Due to these losses, Nitrogen Use Efficiency could be as low as 30% in most cases and could result in reduced nitrogen availability. The crop can become nitrogen stressed for remainder of its growth period, resulting in poor quality and/or yields.

Langley's **SulSync® N37** is a slow release source of Nitrogen and Sulphur (an essential micronutrient for vegetative growth and physiological functioning of the plant) and can be applied at lower rates than straight Urea as Nitrogen Use Efficiency was recorded as high as 86% in field trials.

The uptake and assimilation of Sulphur and Nitrogen by plants are strongly interrelated and dependent upon each other. Release of urea in Langley's **SulSync® N37** is affected by soil temperature and the longevity in the soil at 28 degree is nearly 3 months in a linear pattern with 15 to 28% dissolution in first 7 days.

It is suitable for horticultural and agricultural markets, and holds the potential to reduce Nitrogen loss associated with early application by keeping Nitrogen available for the entire growth period of the crop.

Benefits of Langley's **SulSync® N37** over straight Urea include,

- Cost effective due to its application at lower rate.
- Better crop yield and quality due to continuous supply of nitrogen and sulphur throughout the growth period.
- Cost saving by avoiding split application.

Application

- An application rate of **SulSync® N37** will depend on each crop's specific nutrient requirement, soil nutrient status and numbers of application during the crop cycle.
- For certain crops, **SulSync® N37** can be applied on its own without blending or the addition of straight fertilizers.
- However, **SulSync® N37** gives the best result when used in combination with straight Urea.
- As a simple guideline, please use the formulae as hereunder,

If current Application rate of straight urea = **X** kg/ha

Then new regime in combination with **SulSync® N37** is as follows;

Straight urea = 49% of X
SulSync® N37 = 21% of X

For example, if current Application rate per Ha of straight Urea:

180 kg/ha

Then we recommend your new Application rates with the **SulSync® N37** Program:

Straight Urea	(49% of 180 kg/ha)	88.2 kg
SulSync® N37	(21% of 180 kg/ha)	<u>37.8 kg</u>
New total Fertiliser application rate		126 kg/ha

Please note that above formulae is merely a guideline and you may still need to adjust your application rates in order to achieve desired results on specific crops.

Please contact Langley Fertilizers for more information.