

NUTRIENTS

ZINC SULPAHTE SOLUTION

TECHNICAL DATA SHEET

Description

Zinc Sulphate solution (6.5-6.9% as zinc) is a simple source of zinc, essential for yeast growth and alcoholic fermentation. Zinc is a crucial nutrient often deficient in wort.

Benefits

- Improved yeast growth
- Faster Fermentations
- Reduction of sulphury characteristics
- Concentrated product — economical in use

Principle

A healthy yeast requires many nutrients to sustain its growth. Zinc acts as a metal ion co-factor, catalysing several enzymic reactions that would otherwise not take place or at a very slow rate. An example is alcohol dehydrogenase that yeast uses to manufacture alcohol and CO₂ under fermentation conditions.

Deficiencies can cause the following symptoms:

- Long lag phase
- High pH
- Stuck or sluggish fermentations
- Poor fining rate

Previous research has shown that worts typically contain between 0.04 and 0.10 ppm of zinc. It has been noted that supplementing these worts with zinc to a level of 0.5 ppm stimulates yeast growth and improves fermentation performance.

Zinc Sulphate can also help reduce sulphury characteristics in beer by reacting with hydrogen sulphide produced during fermentation, precipitating as insoluble zinc sulphide.

PRODUCT CODE

ZINSUL6.5

COMMODITY CODE

28332920

PACKAGING (kg)

5 & 25 kg

STORAGE

Keep in original container.

Keep containers sealed when not in use.

Location

Store in cool, dry conditions away from direct sunlight.

Shelf Life

At the recommended storage conditions, one year from the date of manufacture.

Application & Rates of Use

Zinc Sulphate solution can be added to the kettle at the end of the boil or may be mixed with a small volume of wort and added to the fermenter.

This product contains 6.5-6.9% Zn²⁺.

Dosage rates may vary based on the yeast strain and grist composition. Zinc sulfate solution is typically added at a rate of 0.15 to 0.4 mL/hL, providing an equivalent of 0.1 to 0.25 mg/L of Zn²⁺.

Guidelines For Use


- Check that the product is within its shelf life before use
- In case of contact with skin and eyes wash immediately with plenty of water
- Read the Safety Data Sheet prior to use

TECHNICAL SUPPORT

+44 (0) 115 978 5494 | techsupport@murphyandson.co.uk

REGULATORY COMPLIANCE INFORMATION

Refer to the '**Product Specification Sheet**' or contact us on:
+44 (0) 115 978 5494 | compliance@murphyandson.co.uk

	Product name : Zinc Sulphate Solution
	Product code: ZINSUL6.5
For Health & Safety Information refer to the Safety Data Sheet.	Doc Ref: TDS089
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