**PRESERVATIVES & STABILISERS****KMS SOLUTION 18%**

TECHNICAL DATA SHEET

Description

KMS Solution is a food grade Potassium Metabisulphite solution, which provides a convenient way of adding measured quantities of sulphur dioxide.

Benefits

- Approved for use in food and beverage products
- Prevents microorganisms from growing and reproducing
- Prevents biological spoilage
- Has antioxidant properties
- Increases the stability and prolongs shelf life of wine, cider and beer
- Can be used for the removal of free chlorine in tap water which can cause chlorophenolic off flavours in beer
- Can be used as an alternative to Sodium Metabisulphite where sodium ion is not preferred.

Principle

Potassium Metabisulphite is a permitted derivative form of sulphur dioxide and is a well established proven preservative which is used in the brewing, wine and food industries. It is also known as E224. Added to wine and cider at the pH range of between 3.6 and 4.4 it prohibits the growth of wild yeasts, bacteria and fungi giving effective prevention of biological spoilage. In addition to this its antioxidant properties confer increased physical stability and prolonged shelf life to beer.

PRODUCT CODE

KMSS18

COMMODITY CODE

28322000

PACKAGING (kg)

25 & 1200 kg

STORAGE

Keep in original container.
Keep containers sealed when not in use.

Temperature

Recommended storage temperature is 5°C - 25°C.

Location

Store in cool, dry conditions away from direct sunlight.

Shelf Life

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

Application & Rates of Use

KMS solution 18% is added at any point in the process when used as a wine / cider preservative. 10 mL KMS Solution 18% per hectolitre gives 18 ppm sulphur dioxide (SO₂).

Guidelines For Use

- Check that the product is within its shelf life before use
- Check local, up to date regulations prior to use
- Read the Safety Data Sheet prior to use
- The maximum level permitted for SO₂ in cask conditioned beer is 50 ppm. In all other beers only 20 ppm SO₂ is permitted (Council Regulation 1333/2008/EC)
- Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/ L expressed as SO₂ must be labelled as allergenic (European Directive (2003/89/EC)

For the maximum levels permitted for SO₂ in wine please refer to the following table:

Type of Wine	Maximum permitted of SO ₂ for EU Law
Red	150 mg/L(ppm)
White/rose	200 mg/L (ppm)
Sweet	300 mg/L(ppm)




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

 EST. 1887 MURPHY & SON	Product name : KMS Solution 18%
	Product code: KMSS18
	Doc Ref: TDS042
For Health & Safety Information refer to the Safety Data Sheet.	Issue Date: 06/03/2025
	Issue Number: V01
	Written by: Celina Dugulin
	Authorised by: Iain Kenny