MAURITIAN
STANDARD
MS 40—1988

Specification for

SUPERFINE ALCOHOL

Mauritius Standards Bureau

FOREWORD

This Mauritian Standard was drawn up by the Food and Agriculture Standards Committee through its subcommittee on Beverages and approved by the Standards Council on 9 June 1988. It was notified in the Government Gazette on 10 September 1988*.

In preparing this standard reference was made to the following :

1	IS 6613	...	Specification for neutral spirit for alcoholic drinks
2	IS 3752	...	Methods of test for alcoholic drinks
3	BS 5309	...	Parts 1 and 3. Methods for sampling chemical products**
4	ISO 758	...	Liquid chemical products for industrial use—Determination of density at 20°C
5	ISO 1388/5	...	Determination of aldehydes content—Visual colorimetric method
6	ISO 1388/7	...	Determination of methanol content (methanol contents between 0,01 and 0,20% (V/V)— Photometric method
7	ISO 1388/9	...	Determination of esters content—Titrimetric method after saponification
8	ISO 1388/11	...	Test for detection of furfural
9	OIML	...	Tables of alcohometry**

OIML — Organisation Internationale de Métrologie Légale

Acknowledgement is made for the use of information from the above publications.

*General Notice No. 1022 of 1988.

**Documents marked with an asterisk are referred to in this standard.

SPECIFICATION FOR SUPERFINE ALCOHOL

1 SCOPE

This Mauritian Standard applies to bulk superfine alcohol.

2 DEFINITIONS

For the purpose of this standard the following definitions apply.

2.1 *Ethanol*: means ethyl alcohol, having the chemical formula C_2H_5OH.

2.2 *Furfural*: an aldehyde with the chemical formula C_4H_3OCHO, produced by the action of hot alcoholic acidic liquid on certain vegetables fibres during the course of distillation.

2.3 *Fusel oil*: a complex mixture of higher alcohols containing principally amyl alcohols (pentanols), butyl alcohols (butanols) and propyl alcohols (propanols) and traces of capryl alcohol (octan-2-ol) hexyl alcohols (hexanols) or heptyl alcohol (heptanols), esters, aldehydes and terpenes.
It is a product of alcoholic fermentation obtained during distillation.

2.4 *Methanol*: alcohol with the chemical formula CH_3OH. It is distinctly poisonous causing total and permanent blindness or death.

2.5 *Bulk superfine alcohol*: alcohol purified by fractional distillation with the complete removal of furfural and fusel oil.

3 REQUIREMENTS

3.1 *Appearance*

The material shall be a clear and colourless liquid and it shall remain clear when mixed with distilled water.

3.2 *Organoleptic character*

The material shall be free from any flavour other than ethanol.

3.3 *Chemical characteristics*

3.3.1 The material shall be free from fusel oil and furfural as determined by appendix C and ISO 1388/11 respectively.

3.3.2 The material shall comply with the requirements as detailed in table 1.

Table 1 — Requirements for bulk superfine alcohol

Characteristic	Requirement	Method of test
Density (kg/m^2) at 20 °C, max.	807.6	ISO 758
Ethanol content, per cent (V/V) at 20 °C, min. ...	96.00	Appendix A
Acidity, percent (m/m) as CH_3COOH, max. ...	0.001	Appendix B
Aldehyde content, per cent (m/m) as CH_3CHO, max.	0.004	ISO 1388/5
Esters, per cent (m/m) as $CH_3COOC_2H_5$. max. ...	0.02	ISO 1388/9
Methanol content per cent (V/V), max.	0.02	ISO 1388/7