



DRAFT EAST AFRICAN STANDARD

Hair oils — Specification

EAST AFRICAN COMMUNITY

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Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Types	2
5 Requirements	2
5.1 General requirements	2
5.2 Specific requirements	2
5.3 Heavy metal requirements	3
5.4 Microbiological requirements	3
6 Packaging	3
7 Labelling	3
8 Sampling	3
Bibliography	4

Foreword

Development of the East African Standards has been necessitated by the need for harmonizing requirements governing quality of products and services in the East African Community. It is envisaged that through harmonized standardization, trade barriers that are encountered when goods and services are exchanged within the Community will be removed.

The Community has established an East African Standards Committee (EASC) mandated to develop and issue East African Standards (EAS). The Committee is composed of representatives of the National Standards Bodies in Partner States, together with the representatives from the public and private sector organizations in the community.

East African Standards are developed through Technical Committees that are representative of key stakeholders including government, academia, consumer groups, private sector and other interested parties. Draft East African Standards are circulated to stakeholders through the National Standards Bodies in the Partner States. The comments received are discussed and incorporated before finalization of standards, in accordance with the Principles and procedures for development of East African Standards.

East African Standards are subject to review, to keep pace with technological advances. Users of the East African Standards are therefore expected to ensure that they always have the latest versions of the standards they are implementing.

The committee responsible for this document is Technical Committee EASC/TC 071, *Cosmetics and related products*.

Attention is drawn to the possibility that some of the elements of this document may be subject of patent rights. EAC shall not be held responsible for identifying any or all such patent rights.

This second edition cancels and replaces the first edition (EAS 841:2017), which has been technically revised.

Hair oils — Specification

1 Scope

This Draft East African Standard specifies the requirements, sampling and test methods for hair oils.

The standard covers hair oils made from vegetable oils, mineral oil or the mixture of vegetable oil and mineral oil.

Hair oils for which therapeutic claims are made are not covered by this standard.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EAS 346, Labelling of cosmetics — General requirements

EAS 377 (all parts), Cosmetics and cosmetic products

EAS 846, Glossary of terms relating to the cosmetic industry

EAS 847-4, Cosmetics — Analytical methods — Part 4: Determination of acid value and free fatty acids

EAS 847-13, Cosmetics — Analytical methods — Part 13: Determination of rancidity

EAS 847-16, Cosmetics — Analytical methods — Part 16: Determination of lead, mercury and arsenic content

EAS 847-18, Cosmetics — Analytical methods — Part 18: Determination of thermal stability

ISO 3960, Animal and vegetable fats and oils – Determination of peroxide value- Iodometry (visual) endpoint determination

ISO 6887-1, Microbiology of food and animal feeding stuffs — Preparation of test samples, initial suspension and decimal dilutions for microbiological examination — Part 1: General rules for the preparation of the initial suspension and decimal dilutions

ISO 18416, Cosmetics — Microbiology — Detection of *Candida albicans*

ISO 21150, Cosmetics — Microbiology — Detection of *Escherichia coli*

ISO 22717, Cosmetics — Microbiology — Detection of *Pseudomonas aeruginosa*

ISO 22718, Cosmetics — Microbiology — Detection of *Staphylococcus aureus*

ISO 24153, Random sampling and randomisation procedures

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EAS 846 and the following apply.

hair oil

liquid oil-based cosmetic preparation for hair application.

4 Types

Hair oils shall be based on :

- a) vegetable oil;
- b) mineral oil; and
- c) a mixture of mineral oils and vegetable oils.

5 Requirements

5.1 General requirements

5.1.1 All the oils used shall comply with the respective raw material standards.

5.1.2 All other ingredients used shall comply with all parts of EAS 377.

5.1.3 The product, as seen visually, shall be in clear liquid form, free from sediment and suspended matter. For coconut oil, first melt the sample before checking for clarity, sediments and suspended matter.

5.1.5 The product shall not be irritating or harmful to the scalp, when used as intended by the manufacturer.

5.1.6 The product may be coloured or perfumed. Any dyes, colour pigments or perfumes, if added, shall be of cosmetic grade .

5.2 Specific requirements

The product shall comply with the specific requirements given in Table 1 when tested in accordance with the methods specified therein.

Table 1 — Requirements for hair oils

S/No.	Characteristic	Requirement			Test method
		Vegetable oil	Mineral oil	Vegetable and mineral oil	
i	Acid value, mgKOH/g max.	4	1.0	4	EAS 847-4
ii	Thermal stability	To pass test	To pass test	To pass test	EAS 847-18
iii	Peroxide value, meQ of oxygen/kg, max.	15	10	15	ISO 3960

5.3 Heavy metal requirements

The product shall comply with the heavy metal requirements given in Table 2 when tested in accordance with the test methods specified therein.

Table 2— Heavy metal requirements for hair oils

S/N	Heavy metal	Maximum limit ^a mg/kg	Test method
i	Lead,	10	EAS 847-16
ii	Arsenic	2	
iii	Mercury	2	
a The total amount of heavy metals as lead, mercury and arsenic, in combination in the finished product shall not exceed 10 mg/kg			

5.4 Microbiological requirements

The product shall comply with the microbiology limits specified in Table 3 when tested in accordance to the methods described therein

Table 3— Microbiology limits for hair oils

S/N	Characteristic.	Requirement	Test method
i	Total viable count, cfu/g, max	100	ISO 21149
ii	<i>Staphylococcus aureus</i> (per g)	Not detected	ISO 22718
iii	<i>Pseudomonas aeruginosa</i> (per g)	Not detected	ISO 22717
iv	<i>Candida albicans</i> (per g)	Not detected	ISO 18416

6 Packaging

The product shall be packaged in suitable well-sealed containers that shall protect the contents and shall not cause any contamination or react with the product.

7 Labelling

In addition, to the labelling requirements given in EAS 346, each package shall be legibly and indelibly marked with the product name as "Hair oil".

8 Sampling

Sampling shall be done in accordance with ISO 24153

Bibliography

EAS 841: 2017, Hair oils — Specification

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DEAS 841-2023