



DEAS 1353: 2025

ICS 71.100.70

## DRAFT EAST AFRICAN STANDARD

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Bath oil — Specification

EAST AFRICAN COMMUNITY

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## 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*

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## Bath oil — Specification

### 1 Scope

This Draft East African Standard specifies requirements, sampling and test methods for bath oil based on refined vegetable oils or vegetable oils blends, mineral oils or mixture of the vegetable oils and mineral oils, for application on the skin or added to bath water.

### 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 — Requirements*

EAS 377 (all parts), *Cosmetics and cosmetic products*

EAS 846, *Glossary of terms relating to the cosmetic industry*

EAS 847-1, *Cosmetics — Analytical methods — Part 1: Glossary of terms*

EAS 847-2, *Cosmetics — Analytical methods — Part 2: Determination of moisture content and volatile matter content*

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

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

ISO 3960, *Animal and vegetable fats and oils — Determination of peroxide value — Iodometric (visual) endpoint determination*

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

ISO 21149, *Cosmetics — Microbiology — Enumeration and detection of aerobic mesophilic bacteria*

ISO 22716, *Cosmetics — Good Manufacturing Practices (GMP) — Guidelines on Good Manufacturing Practices*

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 document, the terms and definitions given in EAS 846, EAS 847-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <http://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

#### **bath oil**

scented oil added to bath water or applied on the skin during bathing

### 4 Requirements

#### 4.1 General requirements

- 4.1.1 All ingredients used in the manufacture of bath oils shall comply with all parts of EAS 377.
- 4.1.2 Bath oils shall be free from any sediment, suspended matter and separated waters.
- 4.1.3 Bath oils shall be dermatologically safe and shall not cause irritation or harm to the skin when used as intended by the manufacturer.
- 4.1.4 Bath oils shall be produced, prepared and handled in accordance with ISO 22716.
- 4.1.5 When added to water, bath oil shall be uniformly mixed or float on the water surface.

#### 4.2 Specific requirements

Bath oils shall comply with the specific requirements given in Table 1 when tested in accordance with the test methods specified therein.

**Table 1 — Specific requirements for bath oils**

S/N	Characteristic	Requirement	Test method
i.	Moisture content, % m/m, max.	0.5	EAS 847-2
ii.	Acid value, max.	1.0	EAS 847-4
iii.	Peroxide value, meq, O <sub>2</sub> /kg, max.	10	ISO 3960

#### 4.3 Heavy metal contaminants

Bath oils shall comply with the heavy metal limits given in Table 2 when tested in accordance with the test methods specified therein.

**Table 2 — Heavy metal limits for bath oils**

S/N	Heavy metal	Maximum limit <sup>a</sup> mg/kg	Test method
i.	Lead	10	EAS 847-16
ii.	Arsenic	2	
iii.	Mercury	1	

<sup>a</sup> The total amount of heavy metals as lead, mercury and arsenic, in combination in the finished product, shall not exceed 10 mg/kg.

#### 4.4 Microbiological requirements

Bath oils shall comply with the microbiological requirements given in Table 3 when tested in accordance with the test methods specified therein.

**Table 2 — Microbiological requirements for bath oils**

S/N	Micro-organism	Requirement	Test method
i.	Total viable count for aerobic mesophilic microorganisms, CFU/g or CFU/ml, max.	1 000	ISO 21149
ii.	<i>Pseudomonas aeruginosa</i> , per ml or g	Not detected	ISO 22717
iii.	<i>Staphylococcus aureus</i> , per ml or g	Not detected	ISO 22718
iv.	<i>Candida albicans</i> , per ml or g	Not detected	ISO 18416

## 6 Packaging

Bath oils 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 requirements in EAS 346, the package shall be legibly and indelibly labelled with the product name as "Bath oil".

Note: Words like "Shower oil" may be used to replace the name "Bath oil".

## 8 Sampling

Sampling shall be done in accordance with ISO 24153.

## Bibliography

US 2392: 2021, Bath oil — Specification

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