



**RWANDA  
STANDARD**

**DRS  
467**

First edition

2021-mm-dd

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**Body sprays — Specification**

ICS 71.100.70

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Reference number

DRS 467: 2021

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## Contents

1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Requirements.....	1
4.1	General requirements .....	1
4.2	Specific requirements .....	2
5	Packaging and labelling.....	2
5.1	Packaging.....	2
5.2	Labelling.....	3
6	Sampling .....	3
	Annex A (normative) Determination of alcohol content.....	4
A.1	Reagents .....	4
A.1.1	Sodium chloride .....	4
A.1.2	Hexane .....	4
A.1.3	Sodium hydroxide, 1 N.....	4
A.1.4	Phenolphthalein (solid).....	4
A.2	Procedure.....	4
	Annex B (normative) Determination of stability of smell .....	5
B.1	Procedure.....	5
B.2	Results.....	5
	Annex C (normative) Determination of cloud temperature .....	6
C.1	Procedure.....	6
C.2	Results.....	6

## Foreword

Rwanda Standards are prepared by Technical Committees and approved by Rwanda Standards Board (RSB) Board of Directors in accordance with the procedures of RSB, in compliance with Annex 3 of the WTO/TBT agreement on the preparation, adoption and application of standards.

The main task of technical committees is to prepare national standards. Final Draft Rwanda Standards adopted by Technical committees are ratified by members of RSB Board of Directors for publication and gazettment as Rwanda Standards.

DRS 467 was prepared by Technical Committee RSB/TC 011, *Cosmetics and related products*.

## Committee membership

The following organizations were represented on the Technical Committee on *Cosmetics and related products* (RSB/TC 011) in the preparation of this standard.

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University of Rwanda / College of Sciences and Technology (UR/CST)

Rwanda Inspectorate, Competition and Consumer protection Authority (RICA)

Rwanda Food and Drugs Authority (RFDA)

Rwanda Forensic Laboratory (RFL)

Rwanda Medical Supply Ltd (RMS)

UBURANGA PRODUCTS LTD

ORIBIT Company Ltd

SULFO Rwanda Industries Ltd

Beauty Makers Association (BMA)

KANHAN Cosmetics Ltd

Rwanda Investigation Bureau (RIB)

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## Introduction

A paragraph.

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# Body sprays — Specification

## 1 Scope

This Draft Rwanda Standard specifies the requirements, sampling and test methods for body sprays.

## 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.

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

RS EAS 377 (all part), *Cosmetics and cosmetic products*

RS ISO 1271, *Essential oils – Determination of carbonyl value – Free hydroxylamine method*

ISO 1279, *Essential oils – Determination of carbonyl value – Potentiometric methods using hydroxylammonium chloride*

RS EAS 346, *Labelling of cosmetic products – General requirements*

RS EAS 847-17, *Cosmetics – Analytical methods – Part 17: Determination of pH*

## 3 Terms and definitions

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

### 3.1

#### **body spray/mist**

a spray used to add fragrance elsewhere on the body besides the armpits.

## 4 Requirements

### 4.1 General requirements

**4.1.1** All ingredients used shall comply with RS EAS 377 (all parts).

**4.1.2** Alcohol used shall be pharmaceutical/food grade. Some suitable denaturants used in cosmetic preparations include:

a) brucine or brucine sulphate;

- b) diethyl phthalate, denatonium;
- c) benzoate, denatonium saccharide;
- d) sucrose octa-acetate; and
- e) thymol.

## 4.2 Specific requirements

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

**Table1 — Specific requirements for body sprays**

S/N	Characteristics	Requirement	Test method
i)	Aromatic compounds, %v/v	1-3	RS ISO 1271 ISO 1279
ii)	Alcohol content, % v/v	50-70	Annex A
iii)	Stability of smell	To pass test	Annex B
iv)	Cloud temperature	To pass test	Annex C
v)	pH (neat)	5-7	RS EAS 847-17

**Table 2 — Heavy metal contaminants**

Heavy metal	Maximum limits <sup>a</sup> mg/kg	Test method
Lead (as Pb)	10	RS EAS 847-16
Arsenic (as As)	2	
Mercury (as Hg)	2	
<sup>a</sup> The total amount of heavy metals as lead, mercury and arsenic, in combination in the product shall not exceed 10 mg/kg.		

## 5 Packaging and labelling

### 5.1 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.



## 5.2 Labelling

In accordance to the labelling requirements of RS EAS 346, the following information shall be indelibly and legibly marked on the container:

- a) name of the product;
- b) name and address of the manufacturer;
- c) list of ingredients;
- d) net content;
- e) country of origin;
- f) batch number in code or otherwise;
- g) precautions and warnings;
- h) instructions for use
- i) storage condition;
- j) manufacture date and best before date;

## 6 Sampling

Random samples shall be drawn in accordance with RS 278 for test from the market, factory or anywhere else.

## Annex A (normative)

### Determination of alcohol content

#### A.1 Reagents

A.1.1 Sodium chloride

A.1.2 Hexane

A.1.3 Sodium hydroxide, 1 N

A.1.4 Phenolphthalein (solid)

#### A.2 Procedure

Take 25 mL of the sample, accurately measured at 25 °C, in a separator. Add 100 mL of water and mix. Saturate this mixture with sodium chloride, then add 100 mL of hexane and shake the mixture vigorously for 2 min to 3 min. Allow the mixture to stand for about 15 min to 20 min. Run the lower layer into the distillation flask, wash the hexane in the separator by washing vigorously with about 25 mL of sodium chloride solution, allow to stand and run the wash liquor into the first saline solution. Make the mixed solution just alkaline with sodium hydroxide with solid phenolphthalein as indicator. Add a little pumice powder and 100 mL of water. Distil and collect not less than 90 mL of distillate into a 100-mL volumetric flask. Adjust the temperature at 25 °C and dilute with water to 100 mL at the same temperature. Determine the specific gravity at 25 °C. Find the percentage (v/v) of ethyl alcohol corresponding to the specific gravity by reference to the ethyl alcohol tables \*. This figure gives the alcohol content of the distillate. Multiply by 4 to get the percentage of ethyl alcohol in the

## Annex B (normative)

### Determination of stability of smell

#### B.1 Procedure

Put some pieces of bleached gauze of dimensions 5 cm x 10 cm, which have been pre-washed in hot water without soap and dried, into a porcelain cup and pour 1.5 mL of body spray into this cup. After the gauze gets soaked, take it out with the help of pincers. Without squeezing it, dry it in a premise having temperature  $37\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ , and humidity of  $65\% \pm 5\%$  for 12 h.

#### B.2 Results

The product shall be taken to have passed the test if after the 12 h, the smell of body spray can be clearly picked up.

## **Annex C** (normative)

### **Determination of cloud temperature**

#### **C.1 Procedure**

Pour 20 mL of body spray into a wide cylinder and close it with a plug. Insert a thermometer having scale up to  $-20\text{ }^{\circ}\text{C}$ . Immerse the thermometer into the liquid in such a manner that its bulb is situated at the same distance from the bottom and walls. Immerse the cylinder containing the liquid into a cooling mixture containing ice and salt. After cooling the sample to  $5\text{ }^{\circ}\text{C}$ , take out the cylinder, shake it and scan it in transmitted daylight, or in the light of a 40 W electric lamp.

#### **C.2 Results**

The product shall be taken to have passed the test if no turbidity appears at a temperature of  $5\text{ }^{\circ}\text{C}$ . The body spray should be transparent.

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