

**KINGDOM OF SAUDI ARABIA
SAUDI ARABIAN STANDARDS ORGANIZATION**

SASO

**SAUDI STANDARD
Project No. 31801:2020**

Germicidal liquid detergent for general surfaces

SAUDI ARABIAN STANDARDS ORGANIZATION

ICS 71.100.40

Germicidal liquid detergent for general surfaces

1. SCOPE AND FIELD OF APPLICATION

This standard applies to a synthetic detergent in a liquid form that contains a phenolic or other type germicide, and which is intended primarily for general cleaning and disinfecting floors, walls and other hard surfaces (household application only). It is suitable for application on resilient flooring, porcelain, glass, tile, stainless steel, chrome and painted or varnished surface. For more detailed information on uses.

This standard does not apply to products that need to be registered in the registration system for cosmetics and pesticides at Saudi Food and Drug Authority (SFDA).

2. COMPLEMENTARY REFERENCES

- 2.1 SASO 2619:2020 “Detergent, Germicidal, General surfaces, Liquid – Test Methods “.
- 2.2 GSO EN 1276:2020 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas - Test method and requirements.
- 2.3 General Safety Requirements of Household Detergents

3. DEFINITIONS

3.1 Germicide:

A substance that destroys microorganisms on inanimate environmental surfaces in the growing form but not necessarily the resistant spore form.

3.2 Disinfectant:

A substance or treatment that prevents the transmission or survival of undesirable microorganisms (usually in the growing form) on inanimate environmental surfaces by causing the complete destruction or irreversible inactivation of such microorganisms.

4. CLASSIFICATION

Germicidal detergent classified as the following types:

Type 1- Phenolic.

Type 2- Other.

5 REQUIREMENTS

Detergent germicidal general purpose liquid shall be fulfilling the following requirements:

- 5.1 The product shall be a homogeneous solution at room temperature (20 °C).
- 5.2 The surface-active ingredient of this material shall be biodegradable according item 2.3
- 5.3 The germicidal detergent shall not contain visible foreign matter and shall be free from objectionable odour (e.g., rancidity or odour of decomposition) as received and in solution in hot water.
- 5.4 When stored under normal room temperature conditions in unopened containers for one year, the material shall remain stable and homogeneous, and shall remain free from objectionable odor.
- 5.5 The product, under conditions of use, shall not cause deterioration of vinyl, asphalt, terrazzo or rubber flooring surfaces. When used on metallic or other hard surfaces, the product shall cause no greater corrosion or other harmful effects than water used in the same conditions.
- 5.6 **Total solids**
The nonvolatile content (m/m) of the product shall be determined in accordance With SASO mentioned item in (2.1).
- 5.7 **pH**
When tested in accordance with SASO mentioned item in (2.1), the pH of a solution, 1-part sample to 80 parts water; pH shall be within the range of 4.0 to 10.5.

Note: Certain products which formulated with pH values outside this range are acceptable if they have evidence to demonstrate that the pH is necessary to achieve the required detergent & germicidal effect and have a demonstrable safety report

5.8 Stability at low temperature

Any cloudiness, turbidity, separation, or layering that may develop when the product is held at 10 °C for 24 h shall be eliminated when the product is returned to room temperature ((20 °C approx.) for 24 h and well shaken or agitated.

5.9 Germicidal Activity

The product shall efficacy according to the test conditions according to clause (2.2) or any other relevant reference test.

6 SAMPLING

Before taking sample from container shall be thoroughly mix the contents. Fill 473 ml bottle from each container of 187 L gallons or less, using only clear, dry bottles. After filling, securely close the bottles, seal, mark, and keep them in a cool place until tested.

7 Test methods

- 7.1 The tests shall be carried out in accordance with SASO mentioned in item (2).
- 7.2 The tests shall be carried out on samples drawn accordance with item (6).
 - 7.2.1 Visual inspection
 - 7.2.2 Determination of total solids matter
 - 7.2.3 Determination of pH value
 - 7.2.4 Stability at low temperature test
 - 7.2.5 Germicidal Activity test

8 PACKAGING

The product shall be packed in suitable packages that do not affect or be affected by the product during transport and handling.

9 MARKING

Each container of product shall be legible and indelibly marked with the following information in Arabic or both Arabic and English Language.

- 9.1 Name of the product and type.
- 9.2 Name of manufacture and/or his trademark.
- 9.3 Country of origin.
- 9.4 Batch number and/or production date. (could be in English)
- 9.5 Net weight of package.
- 9.6 Ingredient declaration (could be in English only)
- 9.7 Expiry date.
- 9.8 Instruction for use and storage and any warning information (if any).