

# TRINIDAD AND TOBAGO STANDARD

## COMPULSORY

### GENERAL PURPOSE CLEANING AND DISINFECTING PRODUCTS – COMPULSORY REQUIREMENTS

#### PCTTCS 21:20XX

(Replaces TTS 76: Part 15: 2005, TTS 575:2010 and TTS 572:2010)

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Public Comment

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NOTE In order to keep abreast of progress in the industries concerned, Trinidad and Tobago Standards are subjected to periodic review. Suggestions for improvements are welcome.

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Public Comment

## Foreword

These requirements were declared a Trinidad and Tobago Standard on ....., after the draft had been approved by the Trinidad and Tobago Bureau of Standards (TTBS).

TTCS 21:20XX, *General purpose cleaning and disinfecting products – Compulsory requirements* was established in alignment with the principles of Good Regulatory Practices to outline minimum requirements for general purpose cleaning and disinfecting products. It replaces the following three Trinidad and Tobago Standards which are obsolete and have been withdrawn:

- TTS 76: Part 15: 2005, *Requirements for labelling - Part 15: Labelling of general household and automotive cleaning chemicals*;
- TTS 575:2010, *Hand dishwashing detergent – Specification*; and
- TTS 572:2010, *Aromatic disinfectants – Quaternary ammonium compounds – Specification*.

TTCS 21:20XX differs from the previous versions of the aforementioned standards with respect to the following:

- a) the requirements for the aforementioned three standards were condensed into one document and the scope of the revised standard has been expanded to include other general purpose cleaning and disinfecting products; and
- b) labelling requirements for hazard pictograms and signal words have been included for three categories of products including aerosols; bleaching and oxidizing agents and disinfectants due to their hazardous nature and the risk involved in using these products.

TTBS has recommended that this standard be accorded compulsory status. This standard will become effective as a compulsory standard on a date to be notified by the Minister responsible for trade and industry in a Notice to be published in the Trinidad and Tobago Gazette, as required by the Standards Act (Chapter 82:03) to:

- 1) protect the consumer or user against danger to health or safety;
- 2) protect public or industrial health, welfare or safety;
- 3) protect the environment;
- 4) require adequate information to be given to the consumer or user; and
- 5) prevent fraud or misrepresentation arising from misleading advertising or labelling.

This standard is intended for use by:

- i. manufacturers, agents, distributors, sellers, re-fillers, packers, importers, wholesalers, retailers and distributors of general purpose cleaning and disinfecting products to assist in manufacturing or procuring products which satisfy minimum requirements and demonstrate compliance to this compulsory standard; and
- ii. regulatory agencies as a basis for assessing imported or locally manufactured general purpose cleaning and disinfecting products within an established regulatory framework.

This standard includes the following normative annex that is indispensable to the proper application of this standard:

- Annex A contains labelling requirements for hazard pictograms and signal words.

## PCTTCS 21:20XX

### 1 Scope

This standard establishes compulsory chemical and labelling requirements for general purpose cleaning and disinfecting products for household purposes and automotive applications (including dilutable products).

This standard applies to the following products:

- a) general purpose cleaners, including but not limited to multipurpose and multi-surface cleaners;

EXAMPLE Products for cleaning floors, kitchens, countertops, sinks and hard surfaces such as stovetops, cooktops, and microwaves etc.

- b) disinfectants including disinfectants containing quaternary ammonium compounds (QACs) in liquid, powder, cream, tablet and gel forms;
- c) laundry detergent sheets and pellets;
- d) hand dishwashing detergents in liquid, cream, paste and gel forms;
- e) automatic dishwasher detergents;
- f) oxidizing or bleaching agents including calcium hypochlorite in granular, tablet, foam, cream, powder formats and bleaching gel pens;
- g) engine degreasers;
- h) automotive cleaners in liquid, cream, gel formats for multipurpose applications;
- i) spot or stain removers;
- j) aerosols that function as general purpose cleaners for household and automotive applications; and
- k) sanitizers not designed for human application.

EXAMPLE: Tyre, engine, dashboard, console, carpet, upholstery, oven, window, floor, bathroom, fabric and kitchen cleaners etc.

TTCS 21: 20XX also applies to the concentrated versions of the products mentioned above and cleaning wipes and disinfecting wipes (or pads) related to the aforementioned products.

This standard does not apply to the following products:

- 1) automotive hard paste waxes with no cleaning or disinfecting properties;
- 2) automotive rubbing or polishing compound with no cleaning or disinfecting properties;
- 3) floor polishes and waxes with no cleaning or disinfecting properties;
- 4) alcohol-based and non-alcohol based handrubs or hand sanitizers;
- 5) fabric softeners with no cleaning or disinfecting properties;
- 6) liquid sodium hypochlorite solutions which are covered under the national *standard TTCS 1, Sodium hypochlorite solution (Liquid chlorine bleach) – Compulsory requirements*;
- 7) laundry detergents (pods, bars, liquids and powders) which are covered under the national *standard TTCS 7, Laundry detergents – Compulsory requirements*
- 8) cosmetics;
- 9) cleaning products primarily intended for use on human beings and animals;
- 10) pesticides which are covered under the national standard TTS 76: Part 8, *Requirements for labelling- Part 8: Labelling of retail packages of pesticides*;
- 11) products covered under any other national standards; and
- 12) products covered under national regulations issued by other Government Ministries and agencies.

## 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 undated references, the latest edition of the referenced document (including any amendments) applies.

### ASTM International

ASTM D820, *Standard Test Methods for Chemical Analysis of Soaps Containing Synthetic Detergents*

### International Organization for Standardization

ISO 10707, *Water quality - Evaluation in an aqueous medium of the ultimate aerobic biodegradability of organic compounds – Method by analysis of biochemical oxygen demand (closed bottle test)*

ISO 10708, *Water quality — Evaluation in an aqueous medium of the ultimate aerobic biodegradability of organic compounds — Determination of biochemical oxygen demand in a two-phase closed bottle test*

### Organization for Economic Co-operation and Development

OECD 301D, *Guideline for testing of chemicals – Closed bottle test*

### Trinidad and Tobago Bureau of Standards

TTCS 20 :20XX, *Labelling of goods – Prepackaged goods – Compulsory requirements*

### United Nations

Globally harmonized system of classification and labelling of chemicals (GHS)

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **aerosol**

system of solid or liquid particles suspended in gas

### 3.2

#### **alcohol-based handrub hand sanitizer**

alcohol-containing preparation (liquid, gel or foam) designed for application to the hands to inactivate microorganisms or temporarily suppress their growth, or both

### 3.3

#### **automotive hard paste wax**

product designed to protect and improve the appearance of automotive paint surfaces which is a solid at room temperature and contains no water by formulation

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### **3.4**

#### **automotive rubbing or polishing compound**

product designed primarily to remove oxidation, old paint, scratches or "swirl marks" and other defects from the painted surfaces of motor vehicles without leaving a protective barrier

### **3.5**

#### **concentrated**

intensification of the purity or strength of a general purpose cleaning or disinfecting product, such as by the action of adding or removing a substance

### **3.6**

#### **dilutable**

reduction of viscosity by the addition of water

### **3.7**

#### **engine degreaser**

cleaning product designed to remove grease, grime, oil and other contaminants from the external surfaces of engines and other mechanical parts

### **3.8**

#### **fabric softener**

auxiliary laundry product whose primary function is to give fabrics a soft feel, smooth surface, or reduce static electricity or a combination thereof

### **3.9**

#### **floor polish floor wax**

product designed to polish, protect, or enhance floor surfaces by leaving a protective coating that is designed to be periodically replenished

### **3.10**

#### **cleaning**

process of removing undesirable matter

### **3.11**

#### **cleaning wipe**

sheet of woven or non-woven material that is moistened with a cleaning solution and is used to clean soils and stains from various hard surfaces.

NOTE It is common for cleaning wipes to contain disinfecting properties.

### **3.12**

#### **common name**

the name by which goods are commonly described in Trinidad and Tobago, or any name for goods that is commonly used in any trade, art, craft, science, industry or occupation in countries using the official language of the country in which it is being used

### **3.13**

#### **consolidated pack**

more than one package grouped together

**3.14**

**country of origin**

a) country where the goods were wholly manufactured; or

b) in cases where the composition and or quality of the goods was changed to a significant extent elsewhere (other than by packaging), the last country where such significant change occurred

NOTE A significant change in the product refers to where there is a change in the product that has resulted in a change of the Harmonized Commodity Description and Coding System (HS Code) in alignment to the World Trade Organization's Agreement on Rules of Origin.

**3.15**

**date of minimum durability**

any date after which the manufacturer, importer or supplier does not guarantee any property of the general purpose cleaning and disinfecting product by reason of any foreseeable deterioration due to age or normal handling and storage

**3.16**

**detergent**

product specially formulated for cleaning through the process of detergency

**3.17**

**detergency**

process by which soil is dislodged from the substrate and brought into a state of solution or dispersion

**3.18**

**disinfectant**

chemical agent that kills most vegetative forms of pathogens and other microorganisms (but do not necessarily kill all bacterial and fungal spores, mycobacteria or viruses) on inanimate surfaces

**3.19**

**general purpose cleaner**

product designed to clean a variety of hard surfaces, including small appliances

**3.20**

**hazard**

source with a potential to cause injury and ill health

**3.21**

**label**

any tag, brand, mark, pictorial or other descriptive matter, written, printed, stencilled, marked, embossed, impressed on, accompanying or attached to a container

**3.22**

**pictogram**

graphical composition that may include a symbol plus other graphic elements, such as a border, background pattern or colour that is intended to convey specific information

**3.23**

**quaternary ammonium compound**

**QAC**

organically substituted ammonium compound in which the nitrogen compound has a valence of five

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### **3.24**

#### **signal word**

word used to indicate the relative level of severity and alert the reader to a potential hazard on the label

**NOTE** The signal words used in the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) are "Danger" and "Warning". "Danger" is mostly used for the more severe hazard categories while "Warning" is mostly used for the less severe.

### **3.25**

#### **spot remover**

#### **stain remover**

product that cleans localized areas, or removes localized spots or stains on cloth or fabric such as drapes, carpets, upholstery, and clothing, that does not require subsequent laundering to achieve stain removal

### **3.26**

#### **surface active agent**

#### **surfactant**

organic compound that reduces the surface tension of a liquid, or the interfacial tension between two liquids or between a liquid and a solid

### **3.27**

#### **ultimate aerobic biodegradation**

level of biodegradation achieved when the surfactant is totally used by microorganisms in the presence of oxygen, resulting in its breakdown to carbon dioxide, water, mineral salts of any other elements present and new microbial cellular constituents (biomass)

## **4 Compulsory requirements**

### **4.1 Chemical requirements**

**4.1.1** General purpose cleaning and disinfecting products that contain surface active agents shall conform to ultimate aerobic biodegradation as outlined in Table 1 when tested in accordance with any of the specified test methods or any other test method that is acceptable to TTBS.

**4.1.2** The manufacturer, agent, distributor, seller, re-filler, packer, importer, wholesaler, retailer or distributor shall provide product safety data sheets to TTBS as objective evidence that the product, when used in accordance with the stipulated directions, shall not cause any harm or threat to human health or the environment.

**4.1.3** General purpose cleaning and disinfecting products that contain phosphorous shall conform to the requirement for maximum phosphorous content specified in Table 1, when tested in accordance with the specified test method or any other test method that is acceptable to TTBS.

**Table 1 — Chemical requirements for general purpose cleaning and disinfecting products**

Parameter	Limit	Test methods
Ultimate aerobic biodegradation of surface active agent minimum %	60 %	OECD 301D, ISO 10707 or ISO 10708
Phosphorous maximum wt %	1.1 % by weight expressed as phosphorus pentoxide or 0.5 % by weight expressed as elemental phosphorus	ASTM D820

## 4.2 Labelling

**4.2.1** Retail packages of general purpose cleaning and disinfecting products shall be legibly labelled in the English language with the following information:

- a) common name, generic name or usual name of the general purpose cleaning or disinfecting product;
- b) trade name or brand name;
- c) state:
  - 1) name; and
  - 2) address, or the principal place of business or registered office of the manufacturer, agent, distributor, seller, re-filler, packer, importer, wholesaler, retailer or distributor of general purpose cleaning or disinfecting products.

The above information shall be preceded by the words “manufactured by”, “distributed by”, or “imported by” or any format that is acceptable to TTBS.

- d) country of origin which shall be preceded by any of the following phrases or any format that is acceptable to TTBS:
  - 1) “made in”;
  - 2) “product of”;
  - 3) “manufactured in”;
  - 4) “produced in” and
  - 5) “packaged in”.
- e) a correct statement of the net quantity, subject to such tolerance as may be allowed by the national Metrology Act and Regulations, in permissible units of measurement;

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- f) an electronic or telephone contact of the manufacturer, agent, distributor, seller, re-filler, packer, importer, wholesaler, retailer or distributor of the general purpose cleaning and disinfecting product;
- g) all active ingredients shall be listed in addition to known allergens. Additionally, the following items shall be listed irrespective of their concentrations as long as they are present in the general purpose cleaning or disinfecting product:
  - 1) optical brighteners;
  - 2) preservation agents; and
  - 3) fragrances or perfumes.
- h) for bleaching or oxidizing agents, aerosols and disinfectants, at least one hazard pictogram and an appropriate signal word in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as outlined in Annex A. The images in the hazard pictograms shall be black against a white background and surrounded by a diamond-shaped red border.
- i) instructions for use, including dilutions (where applicable) and minimum exposure period (for disinfectants only);
- j) batch number or lot number; if coded, the interpretation of the code shall be communicated to TTBS;
- k) date of minimum durability shall be declared by the words "best before", "expiry", "use by", "BB" or "EXP". The words used to express the date of minimum durability shall be stated in a format which is unambiguous and acceptable to the TTBS and shall be accompanied by: either the date itself; or a reference to where the date is given.

EXAMPLE The following are acceptable date markings:

- 1) JAN 08;
  - 2) JAN 2008;
  - 3) 13 JAN 2008; or
  - 4) 01 2008.
- l) information regarding any specific dangers and precautions which may be related to the general purpose cleaning or disinfecting products and their application;
  - m) storage conditions;
  - n) the statement "KEEP OUT OF REACH OF CHILDREN" or words of similar intent;
  - o) for aerosols, all the following statements or words of similar intent:
    - 1) "THIS CONTAINER IS PRESSURIZED";
    - 2) "KEEP AWAY FROM HEAT INCLUDING DIRECT SUNLIGHT" and
    - 3) "DO NOT PUNCTURE OR INCINERATE EVEN WHEN EMPTY".

- p) the statement "READ DIRECTIONS CAREFULLY BEFORE USE or words of similar intent";
- q) where the packaging is not transparent, the physical form of the general purpose cleaning or disinfecting product shall be appropriately indicated;
- r) first aid instructions;
- s) In addition to the above, disinfectants containing quaternary ammonium compounds shall contain the following statements:
  - 1) a statement to indicate the adequate draining and rinsing or drying requirements or both, from surfaces after use; and
  - 2) a warning to avoid contact with known incompatible substances, items and foodstuffs.

**4.2.2** Consolidated and bulk packages of general purpose cleaning and disinfecting products under the scope of this standard shall be legibly labelled in the English language with the following information:

- a) common name, generic name or usual name of the general purpose cleaning or disinfecting product;
- b) trade name or brand name;
- c) state:
  - 1) name; and
  - 2) address, or the principal place of business or registered office of the manufacturer, agent, distributor, seller, re-filler, packer, importer, wholesaler, retailer or distributor of general purpose cleaning or disinfecting products

The above information shall be preceded by the words "manufactured by", "distributed by", or "imported by" or any format that is acceptable to TTBS.

- d) country of origin which shall be preceded by any of following phrases or any format that is acceptable to TTBS :
  - 1) "made in";
  - 2) "product of";
  - 3) "manufactured in";
  - 4) "produced in"; or
  - 5) "packaged in".
- e) a correct statement of the net quantity, subject to such tolerance as may be allowed by the national Metrology Act and Regulations, in permissible units of measurement;
- f) number of retail packages contained within the consolidated package;

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- g) date of minimum durability shall be declared by the words “best before”, “expiry”, “use by”, “BB” or “EXP”. The words used to express the date of minimum durability shall be stated in a format which is unambiguous and acceptable to the TTBS and shall be accompanied by:
- 1) either the date itself; or
  - 2) a reference to where the date is given
- h) storage conditions.

**4.2.3** The placement of the labelling requirements outlined in clauses 4.2.1 and 4.2.2 on the products, shall be in accordance with TTCS 20 :20XX.

## **5 Mechanisms to demonstrate compliance**

**5.1** TTBS shall verify compliance to this standard and goods under the scope of this standard shall be subject to a mandatory conformity assessment programme administered by TTBS, through inspection, testing, certification or any combination of these activities.

NOTE Inspection and certification programmes include testing and market surveillance related to general purpose cleaning and disinfecting products may include assessments of the production process or quality management system.

**5.2** TTBS may consider and accept information from other sources, such as third party testing, product certification and/or quality management system certification from an accredited body. If an accredited body is not available, the information can be provided by a body approved by TTBS, subject to the terms and conditions of TTBS in accordance with the Standards Act (Chapter 82:03), to provide objective evidence of compliance to this standard. The information may include test reports, and other relevant information. Provision of this information does not exempt TTBS from conducting any further assessment activities deemed necessary to demonstrate compliance with the standard.

**5.3** Notwithstanding clause 5.2, TTBS reserves the right to sample and assess compliance to this standard at the expense of the manufacturer, agent, distributor, seller, re-filler, packer, importer, wholesaler, retailer or distributor of general purpose cleaning or disinfecting products, in accordance with the Standards Act (Chapter 82:03), if deemed necessary by TTBS.

**5.4** In the event that general purpose cleaning and disinfecting products, are manufactured to standard(s) different to this Trinidad and Tobago Standard, the standard(s) shall be acceptable to TTBS.

**5.5** TTBS, at its discretion, shall conduct inspection, sampling and testing to verify compliance of products to this standard.

## **6 Measures related to non-compliance**

**6.1** Where imported or locally manufactured general purpose cleaning and disinfecting products are found to be in breach of any of the requirements outlined in Clause 4, TTBS shall initiate any of the following actions:

- a) direct the manufacturer, agent, distributor, seller, re-filler, packer, importer, wholesaler, retailer or distributor of the general purpose cleaning or disinfecting product to remove non-conforming products from use throughout Trinidad and Tobago within a specified timeframe;
- a) seize and detain non-conforming general purpose cleaning and disinfecting products within the legal framework specified under the Standards Act (Chapter 82:03) including any amendments and revisions;
- b) prohibit the sale and distribution of non-compliant general purpose cleaning and disinfecting products in Trinidad and Tobago;
- c) permit modifications as it pertains to labelling necessary for compliance, where possible; or
- d) direct the manufacturer, agent, distributor, seller, re-filler, packer, importer, wholesaler, retailer or distributor for general purpose cleaning or disinfecting products to initiate a product recall.

**6.2** Any breaches to this standard are subject to fines and penalties as outlined in the Standards Act (Chapter 82:03).

## Annex A (normative)

### Hazard pictograms and signal words

**A.1** The hazard pictogram shall be accompanied by an appropriate signal word, either "Danger" or "Warning" according to the GHS classification of the chemical. See Table A.1 for hazard pictograms for three categories of products.

**Table A.1- GHS hazard pictograms and signal words**

Product category	Hazard pictogram	Requirement
Aerosols (pertaining to general purpose cleaning and disinfecting products)		<p>The following labelling requirements apply to aerosols:</p> <p>a) At least one hazard pictogram, with an appropriate signal word shall be included on the label as indicated in the previous column or any other hazard pictogram acceptable to TTBS.</p> <p>b) Either one of the following signal words shall accompany the hazard pictogram namely: "Danger" or "Warning".</p>

Table A.1 (continued)

Product category	Hazard pictogram	Requirement
Bleaching and oxidizing agents		<p>The following labelling requirements apply to bleaching and oxidizing agents:</p> <ul style="list-style-type: none"> <li>a) At least one hazard pictogram, with an appropriate signal word shall be included on the label as indicated in the previous column or any other hazard pictogram acceptable to TTBS.</li> <li>b) Either one of the following signal words shall accompany the hazard pictogram namely: "Danger" or "Warning".</li> </ul>

Table A.1 (continued)

Product category	Hazard pictogram	Requirement
Disinfectants		<p>The following labelling requirements apply to disinfectants:</p> <ul style="list-style-type: none"> <li>a) At least one hazard pictogram, with an appropriate signal word shall be included on the label as indicated in the previous column or any other hazard pictogram acceptable to TTBS.</li> <li>b) Either one of the following signal words shall accompany the hazard pictogram namely: “Danger” or “Warning”.</li> </ul>