



TRINIDAD AND TOBAGO.

No. 45—1946.

[L.S.]

I ASSENT,

B. E. H. CLIFFORD,  
*Governor.*

27th June, 1946.

AN ORDINANCE to secure safety in the use, conveyance and storage of cylinders containing gases in a compressed state.

[On Proclamation.]

Commence-  
ment.

**E** NACTED by the Governor of Trinidad and Tobago with the advice and consent of the Legislative Council thereof.

Enactment.

**1.** This Ordinance may be cited as the Gas Cylinders (Use, Conveyance and Storage) Ordinance, 1946, and shall come into force on such date as the Governor may by proclamation appoint.

Short title and  
commence-  
ment.

Construction  
and use of  
cylinders.  
First  
Schedule.

2. Subject as hereinafter in this Ordinance provided, no cylinder shall be filled with any of the gases in a compressed state specified in the First Schedule to this Ordinance, and no cylinder containing any of the said gases in a compressed state shall be used, conveyed or stored unless the conditions and requirements of this Ordinance and of any regulations made hereunder are complied with.

Exemptions.

3. This Ordinance shall not apply to:—

- (a) any cylinder the capacity of which does not exceed twelve pounds of water; or
- (b) any air cylinder used in connection with the starting of an internal combustion engine; or
- (c) any air cylinder which forms part of a compressing plant.

Power of  
Governor in  
Council to  
suspend or  
modify  
requirements  
of Ordinance  
or regulations.

4. If the Governor in Council is satisfied that in respect of any class of cylinders or any mode of conveyance any of the requirements of this Ordinance or of any regulations made hereunder may be safely suspended or modified he may, by Order, authorise such suspension or modification for such period or under such conditions as he thinks fit.

Power of  
Governor in  
Council to  
add to  
or remove  
from list  
of gases.

5. The Governor in Council may, by order, add to or remove from the list of gases specified in the First Schedule to this Ordinance such gases as he may consider necessary to include in the list or no longer necessary so to include, as the case may be; and when any such gas is added to the list an identifying colour shall be allotted thereto which shall be specified in the order and the gas and colour shall be deemed to be included in any list of gases specified in any regulations made hereunder.

Regulations.

6. The Governor in Council may make regulations:

- (a) imposing requirements with respect to the testing, filling, use, conveyance and storage of cylinders to which this Ordinance applies; and
- (b) generally for the better carrying out of the purposes of this Ordinance:

Second  
Schedule.

Provided that, until varied or revoked by any such regulations, the regulations contained in the Second Schedule to this Ordinance shall be in force and be deemed to have been made under the authority of this section.

7. (1) In every factory, and in every other place to which section 53 of the Factories Ordinance, 1946, applies in which any cylinder is filled with any of the gases in a compressed state specified in the First Schedule to this Ordinance, or any cylinder containing any of the said gases in a compressed state is used or stored, a printed copy of this Ordinance and of any regulations made hereunder shall be kept posted up in accordance with the provisions of section 53 of the Factories Ordinance, 1946.

Posting up of copy of Ordinance and regulations in factories and power of factory inspector to enforce provisions.

(2) In every such factory or other place as aforesaid an inspector appointed under the Factories Ordinance, 1946, shall, for the purpose of enforcing the provisions of this Ordinance, have the like powers as he has for enforcing the provisions of the Factories Ordinance, 1946.

8. If any person contravenes any of the provisions of this Ordinance or any regulations made hereunder he shall be liable on summary conviction to a fine of one hundred dollars.

Penalty.

#### FIRST SCHEDULE.

Air, argon, carbon dioxide, sulphur dioxide, carbon monoxide, coal gas, hydrogen, methane, propane, butane, neon, nitrogen and oxygen.

#### SECOND SCHEDULE.

*The Gas Cylinders (Use, Conveyance and Storage) Regulations, 1946.*

1. These Regulations may be cited as the Gas Cylinders (Use, Conveyance and Storage) Regulations, 1946. Short title.
2. In these Regulations, "the Ordinance" means the Gas Cylinders (Use, Conveyance and Storage) Ordinance, 1946. Interpretation
3. Cylinders shall be maintained in good condition and the valves shall be securely closed so as to prevent leakage. Maintenance.
4. Cylinders shall be so conveyed as not to project beyond the sides or ends of the vehicle. Adequate means shall be taken to prevent cylinders coming into violent contact with each other or falling off a vehicle or other means of conveyance. This regulation shall not apply to any cylinder containing any of the gases in a compressed state specified in the First Schedule of the Ordinance carried exclusively for the purpose of, and attached to, the vehicle. Conveyance.
5. Cylinders shall be legibly and indelibly marked or labelled with the name of the gas and the name and address of the person by whom it was compressed. Identifying mark or label.
6. The working or internal pressure shall not exceed 2,015 lb. to the square inch in any cylinder manufactured in compliance with the legal or recognised requirements of the United States of America or Canada, and shall not exceed 1,800 lb. to the square inch in any cylinder manufactured in compliance with the legal or recognised requirements of the United Kingdom. Working pressure.

Protection  
of valves.

7. The valves of cylinders containing carbon monoxide, coal gas, hydrogen, methane, propane, or butane shall be protected against damage, either by the design of the cylinder, or by the provision of a stout metal cap or metal cover securely attached to the body of the cylinder. The metal cap or cover shall be so made that it is nowhere in actual contact with any part of the valve or valve body. Every valve cap or cover shall be provided with a vent of such size as to prevent any gas pressure inside the cap or cover.

Left hand  
screw threads  
for certain  
valves.

8. The valves of cylinders containing carbon monoxide, coal gas, hydrogen, methane, propane or butane shall be provided with left handed screw threads for the pipe or other connection.

Prohibition  
of Grease  
oil, &c.

9. Grease oil and similar lubricant shall not be used in any cylinder or on any valves or other fittings of any cylinder.

Periodical  
examination  
and test.

10. At least once in every two years each cylinder shall be subjected by the person who fills it with compressed gas to the hydraulic test specified in the Schedule to these Regulations. Prior to any such test the cylinder shall be thoroughly cleaned and examined externally and, so far as practicable, internally for surface defects, corrosion and foreign matter. Where internal rust or foreign matter is observed the cylinder, prior to the hydraulic test, shall be heated to a temperature not exceeding 300°C. and again cleaned and examined. After each hydraulic test and before being filled with compressed gas the cylinder shall be thoroughly cleaned and dried internally, and shall be stamped on the shoulder below the neck or on a brass tag securely fastened to the neck with marks and figures indicating the person and the date of the test as specified in clause 3 of the said Schedule. Any cylinder which fails to pass the test shall not be filled with any compressed gas to which the Ordinance applies. Provided that in the case of cylinders used solely for liquid carbon dioxide the hydraulic test aforesaid may be carried out once in every five years instead of every two years if the cylinder is fitted with a safety disc set to burst at a pressure not more than 25 per cent. higher than the maximum working pressure of the cylinder and the cylinder is thoroughly cleaned and examined as aforesaid at least once in every two years.

Identifying  
colours.

11. (1) Cylinders containing gases shall be painted with the following identification colours :—

Air	..	..	..grey
Argon	..	..	..blue
Carbon Dioxide	..	..	..green
Sulphur Dioxide	..	..	..yellow
Carbon Monoxide	..	..	..red with yellow band
Coal Gas	..	..	..red
Hydrogen	..	..	..red
Methane	..	..	..red
Propane	..	..	..red
Butane	..	..	..red
Neon	..	..	..medium brown with black band
Nitrogen	..	..	..dark grey with black band
Oxygen	..	..	..black

(2) The identifying colour or colours, as the case may be, shall be painted in the form of a band round the neck of the cylinder close to the valve fitting. In the case of a cylinder with two identifying colours the first mentioned colour shall form the background to the second and the width of the background on either side of the second colour shall be at least equal to the width of the latter.

12. (1) The owner of a vehicle used for the conveyance of cylinders containing any compressed gas to which the Ordinance applies who employs any person in connection with such conveyance shall take measures to ensure that any such person is acquainted with and carries out the provisions of regulation 4 of these Regulations.

Obligation on owners of vehicles conveying cylinders and persons delivering cylinders to carriers.

(2) No person shall deliver or cause to be delivered to any carrier for the purpose of conveyance any cylinder containing compressed gas to which the Ordinance applies unless:—

- (a) such carrier has had brought to his notice by the person aforesaid the provisions of regulation 4 of these Regulations; and
- (b) any such cylinder is delivered or caused to be delivered, as the case may be, to the carrier in such a state as to comply with the requirements of the Ordinance and of these Regulations.

13. The provisions of clauses 1 and 3 of the Schedule to these Regulations and regulations 7, 8 and 11 of these Regulations shall not apply to any cylinder received from abroad solely for filling and returning to the owner, or to any cylinder belonging to the Naval or Military authorities of the United States of America.

Exemption for cylinders received from abroad or belonging to United States of America.

14. The provisions of these Regulations and the Schedule hereto hereinafter in this regulation mentioned shall not apply to any cylinder which is in use before the coming into operation of these Regulations, that is to say:—

Exemption for cylinders in use before Regulations in force.

- (a) Regulation 8:
- (b) Clause 1 of the Schedule:
- (c) The provisions of clause 3 of the Schedule with respect to manufacturers' identification marks.

#### SCHEDULE.

1. Cylinders shall be made in compliance with the legal or recognised requirements in force at any time in the United Kingdom, Canada or the United States of America. In respect of every new cylinder a certificate shall be obtained from the manufacturer specifying the legal or recognised requirements with which the construction of the cylinder complies.

2. The periodical test required by regulation 10 shall be a hydraulic stretch test. The proof pressure applied in this test shall be not less than 3,360 lb. per square inch for cylinders manufactured in compliance with the legal or recognised requirements of the United States of America or Canada, and not less than 3,000 lb. per square inch for cylinders manufactured in compliance with the legal or recognised requirements of the United Kingdom.

Any cylinder which fails under the test shall be rendered incapable of containing any compressed gas.

3. Each cylinder shall be permanently and visibly marked with:—
- (a) the manufacturer's and owner's identification marks and rotation number ;
  - (b) the date of the last hydraulic test. This may be indicated by the month and year or by the year with a symbol to denote the quarter of the year ;
  - (c) for cylinders manufactured after the date of the Ordinance, a mark denoting the country in compliance with whose legal or recognised requirements the cylinder has been manufactured.

The marks shall be stamped on the shoulder below the neck of the cylinder or on a brass tag securely fastened to the neck with the exception of the manufacturer's mark, which may be on the base.

4. Any safety disc fitted to a cylinder containing liquid carbon dioxide (in accordance with the provisions of regulation 10) shall be so designed and constructed as to prevent the scattering of fragments if the disc bursts.

Passed in Council this seventh day of June, in the year of Our Lord one thousand nine hundred and forty-six.

W. J. BOOS,  
*Clerk of the Council.*