



CGA P-63—2021
DISPOSAL OF GASES
SECOND EDITION

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PREFACE:

As part of a program of harmonization of industry standards, the Compressed Gas Association (CGA) has issued CGA P-63, *Disposal of Gases*, jointly produced by members of the International Harmonization Council and originally published by the European Industrial Gases Association (EIGA) as EIGA Doc 30, *Disposal of Gases*.

This publication is intended as an international harmonized standard for the worldwide use and application of all members of the Asia Industrial Gases Association (AIGA), Compressed Gas Association (CGA), European Industrial Gases Association (EIGA), and Japan Industrial and Medical Gases Association (JIMGA). Each association's technical content is identical, except for regional regulatory requirements and minor changes in formatting and spelling.

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Work Item 16-036
Specialty Gases Committee

NOTE—Technical changes from the previous edition are underlined.

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1 Scope and purpose

1.1 Scope

This publication recommends disposal methods for more than 140 gases and their mixtures and provides safe practices for the disposal of their containers when unserviceable. This publication reflects the concern of the industrial gases industry to ensure that when the need arises for disposal of gases and mixtures, standards of health, safety, and environmental quality continue to be maintained. Only environmentally acceptable methods are proposed.

The principles, recommendations, and requirements in this publication may be applied to both routine and emergency disposal operations; however, emergency disposal operations may dictate special or one-of-a-kind procedures.

1.2 Purpose

Dealing with damaged and/or unidentifiable containers (gas cylinders, drum tanks, and similar transportable and pressurized vessels) is often an integral part of the gas disposal operation, and for this reason guidance on the subject is included. However, such work is potentially dangerous and shall only be performed by experienced and competent personnel following a risk assessment.

This publication should be used as an aid in the training of operators involved in the disposal of gases. The sections have been written with this in mind, and in particular summary checklists have been added for use as training modules.

It is the responsibility of the owner of the gas containers to dispose of the gas container in due time before they cause additional risks for the personnel in charge of the disposal and for the environment.

1.3 Key operations for safe remediation and/or disposal of contents and/or containers

Key operations may include:

- Identify container contents, see Section 7;
- Select disposal method, see Section 5;
- Safely dispose of container contents, see Section 6;
- Evacuate and/or purge container, see 8.3;
- Devalue container, see 8.4;
- Remove any noxious residues from the container, see 8.5; and
- Render container unserviceable and scrap, see 8.6.

NOTE—If doubt exists at any stage in the procedure, specialist advice should be obtained.

2 Definitions

For the purpose of this publication, the following definitions apply.

2.1 Publication terminology

2.1.1 Shall

Indicates that the procedure is mandatory. It is used wherever the criterion for conformance to specific recommendations allows no deviation.

2.1.2 Should

Indicates that a procedure is recommended.