

SINGAPORE STANDARD

# Code of practice for bulk liquid oxygen storage installations on user premises

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*Air Products Singapore ~~Pte Ltd~~ Asia Industrial Gases Pte Ltd*

*Iwatani ~~Industrial Gases~~ Corporation (Singapore) Pte Ltd*

*Leeden National Oxygen Limited*

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*~~National Oxygen Singapore~~ Pte Ltd*

*~~Singapore Oxygen Air Liquide~~ Pte Ltd*

*Ministry of Manpower*

*Singapore Civil Defence Force*

*Singapore Institute of Architects*

~~The Working Group acknowledges the contributions of Mr Ernest Khoo and Mr Jerry Wong.~~

## Contents

	<b>Page</b>
Foreword _____	8
1 Scope _____	9
2 Normative references _____	9
3 <del>Definitions</del> Terms and definitions _____	9
4 Physical constants of oxygen _____	10
5 Hazards and precautions _____	11
6 Location of bulk liquid oxygen storage installation _____	12
7 Distances between bulk liquid oxygen storage container and exposures _____	<del>14</del> 14
8 Access _____	<del>13</del> 17
9 <del>Storage labelling and warning notices</del> Ventilation _____	<del>14</del> 19
10 <del>Operation, maintenance and emergency</del> Hose couplings _____	19
11 <del>Modifications</del> Fabrication _____	20
12 <del>Ventilation</del> Storage labelling and warning notices _____	20
13 <del>Hose couplings</del> Operation, maintenance and emergency _____	<del>16</del> 21
14 <del>Fabrication</del> Modifications _____	<del>16</del> 21
<b>Annex</b>	
A Distances between bulk oxygen systems and exposures (informative) _____	<del>17</del> 23
<b>Table</b>	
1 Minimum separation distances between bulk liquid oxygen systems and exposure hazards _____	<del>14</del> 15
<b>Figures</b>	
1 Illustration of “line of sight” _____	13
2 Typical liquid oxygen storage installation with hardstanding layout _____	19
Bibliography _____	25



## Foreword

This Singapore Standard was prepared by the Working Group appointed on Review of SS 597 set up by the Technical Committee for Chemistry on Chemicals and Processes under the direction of the Chemical Standards Committee purview of CSC.

This is a revision of ~~CP 34 : 1985~~ SS 597: 2014 “Code of practice for bulk liquid oxygen storage installations on user premises”. This revision provides ~~guidance for persons associated with the design, installation, operation and maintenance of bulk liquid oxygen storage systems. It includes an update to the minimum separation distances between bulk liquid oxygen systems and exposure hazards~~ an additional requirement for outdoor installation with an illustration to provide further guidance to gas suppliers and users. The content has also been restructured for a better flow of information and readability.

In preparing this standard, reference was made to the following publications:

1. ~~AIGA 030/13~~ Storage of cryogenic air gases at users' premises
2. ~~ANSI/ASME B31.3: 2012~~ Process piping
3. ~~ASME: 2013~~ Boiler and pressure vessel code
4. ~~CGA G-4.1 : 2009~~ Cleaning equipment for oxygen service
5. ~~NFPA 55 : 2013~~ Compressed gases and cryogenic fluids code
6. ~~SS 532 : 2007~~ Code of practice for the storage of flammable liquids
7. ~~Handbook of compressed gases, Compressed Gas Association, Inc., New York, Fifth Edition, 2013~~
8. ~~Globally Harmonised System of Classification and Labelling of Chemicals (GHS), fourth revised edition, 2011 by United Nations~~

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Acknowledgement is made for the use of information from the above ~~reference~~ publication.

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