

SINGAPORE STANDARD

# **SS 586 : Part 1 : 2008**

(ICS 13.300)

SPECIFICATION FOR

## **Hazard communication for hazardous chemicals and dangerous goods**

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*Part 1 : Transport and storage of dangerous  
goods*

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2 Bukit Merah Central  
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## Hazard communication for hazardous chemicals and dangerous goods

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### *Part 1 : Transport and storage of dangerous goods*

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Head  
Standardisation Department  
SPRING Singapore  
2 Bukit Merah Central  
Singapore 159835  
Telephone: 62786666    Telefax: 62786667  
Email: [stn@spring.gov.sg](mailto:stn@spring.gov.sg)

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## Contents

	Page
Foreword _____	6

## CLAUSES

1	Scope _____	8
2	References _____	9
3	Definitions _____	9
4	Requirements _____	10
5	Recommended colour codes _____	10
6	Transport labels for dangerous goods _____	10

## ANNEXES

A	Information of Hazard Identification Number (HIN) (informative) _____	11
B	National Authorities regulating the transport of dangerous goods (informative) _____	15
C	Transport Emergency Information Panel (TEIP) (normative) _____	16
D	Storage Emergency Information Panel (SEIP) (normative) _____	21
E	Table of minimum quantities – Road transportation (normative) _____	24
F	Recommended colour codes (informative) _____	25
G	Transport labels for dangerous goods (informative) _____	26

## TABLE

1	Guide to display Dangerous Goods Placard/ Transport Emergency Information Panel (TEIP) _____	19
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## FIGURES

1	Illustration of hazardous substances (for workplace purposes), dangerous goods (for transport purposes) and other substances _____	8
2	Transport Emergency Information Panel (TEIP) _____	17
3	Display of Transport Emergency Information Panel (TEIP) on road tank vehicle with single/multiple compartments _____	20
4	Storage Emergency Information Panel (SEIP) _____	22
5	Warning panel for dangerous goods storage in public areas _____	23

## **Foreword**

This Singapore Standard was prepared by the Working Group appointed by the Technical Committee on Chemistry under the purview of the Chemical Standards Committee. The SS 586 series of standards is the result of the revision of SS 286 : 1984, 'Caution labelling for hazardous substances' (5 parts) and CP 98 : 2003, 'Preparation and use of Material Safety Data Sheets (MSDS)'.

The Specification for hazard communication for hazardous chemicals and dangerous goods comprises the following three parts, which are complementary to one another:

- Part 1 : Transport and storage of dangerous goods,
- Part 2 : Globally harmonised system of classification and labelling of chemicals – Singapore's adaptations, and
- Part 3 : Preparation of Safety Data Sheets (SDS).

SS 586 : Part 1 provides information and guidance on the classification of dangerous goods by the types of hazards they present. It also provides information on standard hazard communication labels. This part applies to the storage and transportation of dangerous goods by road in Singapore, which includes carriages in bulk, tank-vehicles, vehicles with demountable tanks as well as by vehicles carrying dangerous goods in packages. The transportation of dangerous goods by sea and air is subject to the requirements of International Maritime Organisation (IMO) and International Air Transport Association (IATA) / International Civil Aviation Organisation (ICAO) respectively and is not covered in this standard.

SS 586 : Parts 2 and 3 provide guidance for the implementation of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Preparation of Safety Data Sheets in Singapore. GHS is an international system for the classification of chemicals by the types of hazards they present. It provides information on standard hazard communication elements including labels and SDS. The GHS helps to ensure that information on physical hazards, health hazards and environmental hazards from chemicals is made available, in order to enhance the protection of human health and the environment during the handling, transport, and use of these chemicals. The GHS also provides for the global harmonisation of rules and regulations on the classification, labelling and SDS of chemicals.

In preparing this part of the Singapore Standard, reference was made to the United Nations Recommendations on the Transport of Dangerous Goods (UNRTDG Orange Book, 14<sup>th</sup> revised edition). The UNRTDG document may be obtained by:

1. Purchasing directly from the United Nations (<https://unp.un.org/>) as a book or a CD.
2. Downloading from the internet as pdf files ([http://www.unece.org/trans/danger/publi/unrec/rev14/14files\\_e.html](http://www.unece.org/trans/danger/publi/unrec/rev14/14files_e.html)).

This standard is expected to be used by chemical manufacturers, importers, suppliers, users, and supply chain service providers. The national competent authorities such as the Agri-Food and Veterinary Authority of Singapore (AVA), Health Sciences Authority (HSA), Ministry of Health (MOH), Ministry of Manpower (MOM), National Environment Agency (NEA), Singapore Civil Defence Force (SCDF) and Singapore Police Force (SPF) may use this standard to supplement their regulations and / or guidelines.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. SPRING Singapore shall not be held responsible for identifying any or all of such patent rights.

**NOTE**

1. *Singapore Standards are subject to periodic review to keep abreast of technological changes and new technical developments. The changes in Singapore Standards are documented through the issue of either amendments or revisions.*
2. *Compliance with a Singapore Standard does not exempt users from legal obligations.*

## Specification for hazard communication for hazardous chemicals and dangerous goods – Part 1 : Transport and storage of dangerous goods

**IMPORTANT** – The colours represented in the electronic file of this part of SS 586 can be neither viewed on screen nor printed as true representations. Although the copies of this part of SS 586 printed have been produced to correspond (with an acceptable tolerance as judged by the naked eye) to the colour requirements, it is not intended that these printed copies be used for colour matching. Instead, it is recommended to refer to the colour codes identified in Annex F.

### 1 Scope

This Singapore Standard adopts the United Nations Recommendations on the Transport of Dangerous Goods, which provides an international system for the classification of dangerous goods by the types of hazards that they present. It also specifies standard hazard communication labels.

This standard applies to the storage and transportation of dangerous goods by road in Singapore. The transportation of dangerous goods by sea and air is subject to the International Maritime Organisation (IMO) and International Air Transport Association (IATA) / International Civil Aviation Organisation (ICAO) requirements respectively and is not covered in this standard.

Figure 1 below shows the illustration of hazardous substances (for workplace purposes), dangerous goods (for transport purposes) and other substances.

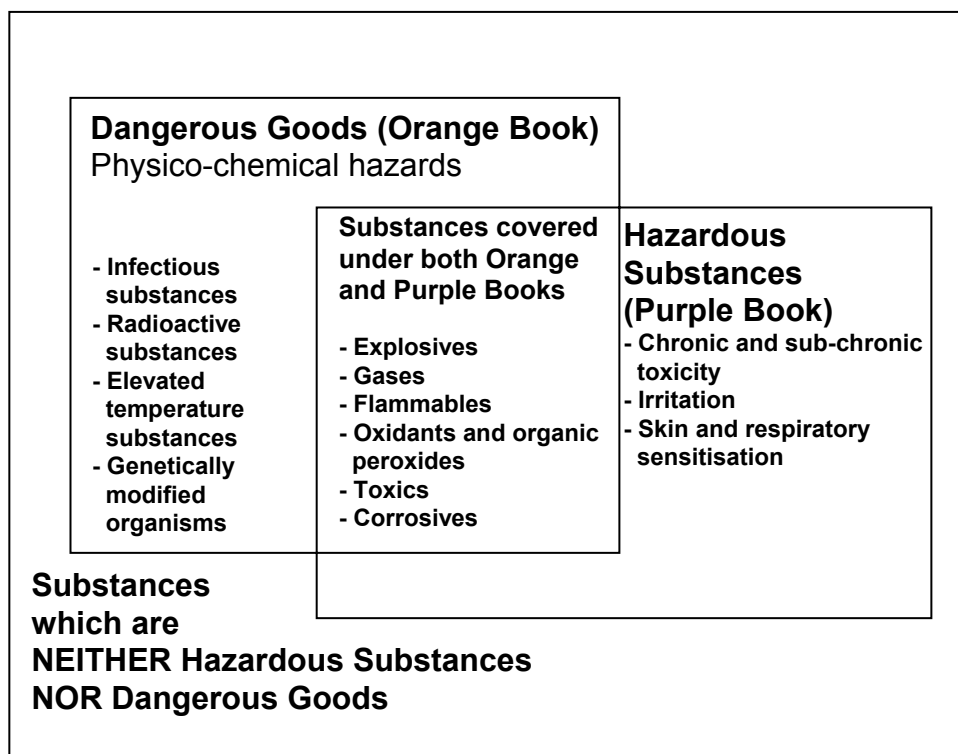


Figure 1 – Illustration of hazardous substances (for workplace purposes), dangerous goods (for transport purposes) and other substances