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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 4210-2015

**Inspection rules for import and export dangerous chemical
products. Hydrogen
(English Translation)**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Beijing Entry-Exit Inspection and Quarantine Bureau.

Introduction

Hydrogen is typically elemental forms of hydrogen, is a colorless, odorless, highly flammable gas. Hydrogen is an important industrial raw materials, such as raw Production of ammonia and methanol is also used to extract oil, hydrogenated organic substance as a contraction of the gas used in a hydrogen oxygen flame welding and rocket fuel. in High temperature reduction of metal oxides with hydrogen in preparation of metal compared to other methods, the nature of the product easier to control, while the purity of the metal is also high.

Widely used in tungsten, molybdenum, cobalt, germanium, and metal powder such as iron, silicon production. Now, hydrogen is also used as future clean energy one kind of substitutability with in automobile fuel.

United Nations "on the Recommendations on the Transport of Dangerous Goods Model Regulations" compressed hydrogen is classified as Class 2.1 flammable gases, the use of a pressure vessel Transport, the United Nations No. 1049. Extremely flammable hydrogen, mixed with air can form explosive mixtures when exposed to heat or fire or explosion. Than empty Light air, when the indoor use and storage, increased retention roof leak difficult to discharge, the case of Mars can cause an explosion. Combustion in air, the flame was Blue, it can not easily be found. Hydrogen and fluorine, chlorine, bromine and other halogens will react violently. Hydrogen simple asphyxiating gases, only at high concentrations, since empty Gas partial pressure of oxygen decrease was caused by hypoxia asphyxia. In the

high partial pressure, showing a narcotic effect.

In March 2011 the State Council issued the "dangerous chemical safety regulations" [591 State Council Decree] provides for inspection and quarantine departments Responsible for the import and export of hazardous chemicals and their packaging implementation of the inspection. To ensure the effective implementation of the relevant inspection and quarantine operations, standardize import and export Dangerous chemicals and packaging inspection and supervision work, the development of this standard.

Import and export of dangerous chemicals inspection of hydrogen Warning. Use of this standard should have the relevant inspection or testing work experience and relevant qualifications. This standard does not indicate all possible security issues. Users are responsible for the use of appropriate safety and health practices and to ensure compliance with relevant national regulations condition.

1 Scope

This standard specifies the import and export of hazardous chemicals hydrogen and packaging requirements, testing, qualified judgment and disposition.

This standard applies to the import and export of dangerous chemicals and packaging inspection and compressed hydrogen.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 3634.1 hydrogen - Part 1. Industrial hydrogen GB/T 3634.2 hydrogen - Part 2. purity, high purity and ultra pure hydrogen GB/T 3723 Sampling of chemical products for industrial use General Safety GB/T 6678 General Principles for Sampling Chemical Products GB/T 6681 General rules for sampling gaseous chemical products GB 7144 cylinders color logo GB 14194 permanent gas cylinders GB 15258 rules for preparation of chemical safety labels GB 15383 cylinder valve outlet connections and sizes GB 16804 cylinders warning labels GB/T 16942 electronic industry with hydrogen gas GB 30000.3 classification and labeling of chemicals - Part 3. flammable gases GB 30000.6 chemical classification and labeling - Part 6. pressurized gas SN/T 1828.7 and export of dangerous goods classification - Test methods - Part 7. compressed gases SN/T 1828.12 import and export of dangerous goods classification - Test methods - Part 12. Flammable Gas SN/T 3204 gas import and export of dangerous chemicals inspection of the basic requirements of flammable gas SN/T 3656.2 import and export of hazardous chemicals test specification - Part 2. Gas List of Hazardous Chemicals (2002 Edition) About Recommendations on the Transport of Dangerous Goods Model Regulations (UNRTDG) on Transport of Dangerous

Goods Manual of Tests and Criteria Recommendations Globally Harmonized System of Classification and Labelling (GHS)

3 Terms and Definitions

GB 30000.3, GB 30000.6 terms and definitions and SN/T 3204 defined apply to this document.