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

SN/T 4186-2015

**Inspection rules for import and export dangerous chemical
products - Hydrogen phosphide
(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 Hunan Exit Inspection and Quarantine.

Introduction

Phosphine is a highly toxic, colorless, flammable liquefied compressed gas in the storage cylinder. In industry, the role of water on calcium phosphide, Acting on phosphorus or potassium, phosphorus and alkali boiling can produce phosphine. Phosphine can be used for producing a semiconductor dopant polymerization initiator Agent, a condensation reaction catalyst can also be used as a flame retardant production intermediates. Phosphine main origin of Yunnan, Guizhou and Sichuan provinces, the main to import countries are South Korea, the United States.

In accordance with the United Nations "on the Recommendations on the Transport of Dangerous Goods Model Regulations" (UNRTDG), phosphine main risk is classified as 2.3 Class of toxic gases, dangerous times classified as Class 2.1 flammable gases, UN No. 2199. Phosphine major damage to the nervous system, respiratory system System, heart, kidneys and liver. Mild acute poisoning, the patient has a headache, fatigue, nausea, insomnia, thirsty, nasopharynx dry, chest tightness, cough and fever Etc; Moderate poisoning, the patients have mild disturbance of consciousness, difficulty breathing, myocardial injury; Severe poisoning occurs a coma, convulsion, pulmonary edema and significantly Cardiac, liver and kidney damage.

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 phosphine 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 phosphine and packaging requirements, testing, qualified judgment and disposition.

This standard applies to the import and export of phosphine and their packaging inspection.

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 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/T 14851 electronic industrial gas phosphine GB 15258 rules for preparation of chemical safety labels GB 30000.3 classification and labeling of chemicals - Part 3. flammable gases SN/T 1828.10 import and export of dangerous goods classification - Test methods - Part 10. Toxic gases SN/T 3204 import and export of dangerous chemicals inspection of the basic requirements of flammable gases SN/T 3206 import and export of dangerous chemicals inspection of the basic requirements of toxic gases 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, SN/T 3204, Terms and definitions SN/T 3206 and SN/T 3656.2 defined apply to this document.

4 Product Properties

4.1

Chinese name. phosphine; also known as phosphine.

4.2

English name. Hydrogenphosphide; Phosphine.

4.3

Chemical formula. PH_3 .

4.4

CAS number. 7803-51-2.