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**NATIONAL STANDARD OF THE
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Nanotechnologies -- Nanomaterial risk evaluation

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Foreword

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

This standard uses the translation method equivalent to ISO /T R13121.2011 "Nanotechnology Nanomaterials Risk Assessment".

This standard was proposed by the Chinese Academy of Sciences.

This standard is under the jurisdiction of the National Nanotechnology Standardization Technical Committee (SAC/TC279).

This standard was drafted. National Nanoscience Center, Jiangsu Hehai Nano Technology Co., Ltd., Shenzhen Xianggen Biotechnology Co., Ltd.

the company.

1 Scope

This standard describes the complete identification, evaluation, processing, decision making and communication of potential risks in the development and use of manufactured nanomaterials.

To protect the health and safety of the public, consumers, practitioners and the environment.

Although the whole process of product supervision and risk management proposed in this standard is not only for nanomaterials, but through focusing and nanotechnology

Specific information and issues that are relevant to the accepted methods are complemented as much as possible. This standard gives the need for risk assessment and risk management.

Information guide for decision making, how to manage risk through reasonable assumptions and appropriate risk management operations when information is incomplete or uncertain.

This standard also contains methods for updating assumptions, decisions, and practices to

make new information available, and how to communicate information and decisions.

A method for stakeholders.

This standard recommends that organizations manage nanomaterials in a transparent and reliable manner. To this end, this standard describes the existing nanomaterials letter

The whole process of organization, documentation and communication, including the identification of incomplete information, how to solve the lack of information, and explanation

The basis for risk management decisions and actions.

2 symbols and abbreviations

The following symbols and abbreviations apply to this document.

ADME. absorption, distribution, metabolism and excretion (Absorption, distribution, metabolism and excretion)

AIChE. American Institute of Chemical Engineers

BAF. Bioaccumulation factor

BCF. Bioconcentration factor

CAS. American Chemical Abstract Service (Chemical Abstract Service)

CBI. Business confidential information (Confidential business information)

CNT. Carbon nanotube (Carbon nanotube)

COSHH. Control of Substances Hazardous to Health

CVD. Chemical vapor deposition (Chemical vapor deposition)

DEFRA. UK Department of Environment, Food and Rural Affairs (UK Department for Environmental Food and Rural Affairs)

EEC. European Economic Community (European Economic Community)

EHS. Environment, Health and Safety (Environmental health and safety)

EPA. US Environmental Protection Agency (US Environmental Protection Agency)

GHS. Global Chemical Harmonized System of Classification and Labeling System
(Globally Harmonized System of Classification and Labeling of Chemicals)

HPV. High production volume (High production volume)

HSE. UK Health and Safety Executive (UK Health and Safety Executive)

ILSI. International Life Sciences Institute (InternationalLifeSciencesInstitute)

ISO . International Organization for Standardization (International Organization for Standardization)

IUR. Inventory Update Rule (InventoryUpdateRule)

LCA. Lifecycleassessment

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