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

中华人民共和国国家标准

GB 18420.1-2009

Replace GB 18420.1-2001

**Biological toxicity for pollutants from marine petroleum
exploration and exploitation—Part 1: Grading
海洋石油勘探开发污染物生物毒性
第 1 部分：分级**

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Foreword

All the technical contents in this part are mandatory.

Biological Toxicity for Pollutants from Marine Petroleum Exploration and Exploitation is divided into two parts:

— Part 1: Grading

— Part 2: Test methods

This part is Part 1.

This part replaces GB 18420.1-2001 *Biological Toxicity Grading for Pollutants from Marine Petroleum Exploitation and Exploitation*.

Compared with GB 18420.1-2001, this part has been revised mainly as follows:

— Terms and definitions about the “Mud” is revised as terms and definitions related to “Drilling Fluid” (3.4 and 3.5 of 2001 version, 3.4 and 3.6 of this version);

— Added terms and definitions of "Synthetic-based Drilling Fluid" and "Base Fluid" (3.4.3 and 3.5 of this version);

— Added biological toxicity grading requirements for base fluid and synthetic base drilling fluid (6.1.1, 6.1.2, 6.2.1 and 6.2.2 of this version);

— Adjusted biological toxicity grading requirements for drill cuttings and produced water (5.3, 6.2 and 6.3 of 2001 version, 6.1.3, 6.1.4 and 6.2.3 of this version).

This part is proposed by State Oceanic Administration.

This part is centralized by National Marine standardization Technical Committee (SAC/TC 283).

The drafting units of this part are: South China Sea Branch of State Oceanic Administration and Guangdong Laboratory Animals Monitoring Institute.

Main drafters of this part: Wu Jinxiao, Huang Ren, Zheng Yanjing, Wei Shelin, Zhou Jin, Wang Ying, Wang Guodong.

The release conditions of previous versions of the standards replaced by this part are as follows:

— GB 18420.1---2001.

Biological toxicity for pollutants from marine petroleum exploration and exploitation-Part 1: Grading

1 Scope

This part provides frequency and limit of biological toxicity test in different sea area of some pollutants used or generated in marine petroleum exploration and exploitation operation or discharged into the ocean, and puts forward demands for test methods, judging results of samples.

This part applies to biological toxicity grading of drilling fluid, base fluid, drilling cuttings and produced water used or generated and discharged into the ocean in marine petroleum exploration and exploitation operation. The biological toxicity grading of pollutants not defined in this part serves as external reference use.

2 Normative references

The articles contained in the following documents have become this part when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this part. For the undated documents so quoted, the latest editions shall be applicable to this part.

GB/T 18420.2 Biological toxicity for pollutants from marine petroleum exploration and exploitation - Part 2: Test method

3 Terms and definitions

For the purpose of this part, the following terms and definitions shall apply.

3.1

Pollutant from marine petroleum exploration and exploitation

Any substance that is used or generated and discharged into the ocean in marine petroleum exploration and exploitation operation and may have an impact on the marine ecological environment.

3.2

Biological toxicity grading of pollutants

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