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Replacing GB/T 17519.1-1998, GB 16483-2000

**Safety Data Sheet for Chemical Products -
Content and Order of Sections**

化学品安全技术说明书 内容和项目顺序

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Foreword

This Standard replaced GB/T 17519.1-1998 *Safety Data Sheet for Chemical Products - Part 1: Content and Order of Sections*, and GB 16483-2000 *General Rules for Preparation of Chemical Safety Data Sheet*.

Compared with GB/T 17519.1-1998 and GB 16483-2000, this Standard has the major differences as follows:

- The information order in 16 sections is different;
- Add the definition of substance;
- The hazard overview in the Item 2 of A.3 in Appendix A is consistent with the hazard classification in the *Globally Harmonized System of Classification and Labelling of Chemicals* (GHS).

The Appendix A in this Standard is normative.

This Standard was proposed by China Petroleum and Chemical Industry Association.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Chemistry.

Drafting organizations of this Standard: Chemical Registration Center of the State Administration of Work Safety; Sinochem Chemical Standardization Institute; Shanghai Research Institute of Chemical Industry; Chinese Chemical Economic Technology Development Center; and SINOPEC Qingdao Safety Engineering Institute.

Chief drafting staffs of this Standard: Wei Jing, Li Xuehua, Li Yuncai, Zhong Zhiwan, Yang Yi, Liu Gang, Chen Jun, and Ji Guofeng.

The historical editions replaced by this Standard are as follows:

- GB/T 17519.1-1998;
- GB 16483-1996, GB 16483-2000.

Safety Data Sheet for Chemical Products - Content and Order of Sections

1 Scope

This Standard specifies the structure, content and general form of the safety data sheet for chemical products (SDS).

This Standard is applicable to the preparation of the SDS.

This Standard neither specifies the fixed format of SDS, nor provides the practical example of SDS.

2 Terms and Definitions

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

2.1 Chemical product

It indicates the substance or mixture.

2.2 Substance

Chemical elements or their compounds obtained under natural conditions or by any manufacturing process, including any additives necessary to maintain their stability and any impurities produced during processing, but excluding the separable solvents that does not affect the stability of the substance or change its composition.

2.3 Exposure control

A set of precautions taken to protect the staffs exposing to the chemicals.

2.4 GHS classification

Classification of the hazard of the substance according to the classification criteria of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) based on the physical, health and environmental hazard characteristics of the substance and mixture.

2.5 Harm

It is not within the scope of the use of the products, processes and services provided by the supplier, but in the actual use, the probability of misuse is very high.

2.16 Recipient

An intermediary or final user who accepts chemicals from a supplier for industrial or professional use, such as storage, handling, processing and packaging.

2.17 Risk

The probability that may cause the harm and the severity of the harm.

2.18 Safety

Exempt unacceptable risks.

2.19 Signal word

The word on the label that indicates the relative severity of the chemical hazard and alerts the contactor to the potential hazard. For example, GHS specifies, "signal word" uses "Danger" and "Warning".

2.20 Supplier

The group that supplies certain chemical product to the recipient.

2.21 Symbol

The graphic element that briefly delivers the safety information.

3 Overview

In general, a chemical product shall be prepared with an SDS.

3.1 For the information contained in the SDS and the non-confidential information related to the composition, its ingredient can be provided by different modes according to the provisions of Section 3 in A.1 of Appendix A.

3.2 The supplier shall provide the recipient with a complete SDS, so that provide information related to safety, health and environment. The supplier assumes the responsibility to update the SDS; and provide the latest version of SDS to the recipient.

3.3 When using the SDS, the recipient of SDS shall also fully consider the risk assessment results of chemical products under specific conditions, and take necessary precautions. The recipient of SDS shall pass the dangerous information to the users of different workplaces through appropriate channels. When making specific

14) Transportation information;

15) Regulation information;

16) Other information.

NOTE: To facilitate the SDS compiler to identify SDS for different chemical products; the SDS shall be numbered.

4.2 Fill in the relevant information under the 16 sections; if there is no data under any section, please indicate the reasons for no data. In the 16 sections, except for the “other information” in Section 16, the remaining sections can’t be left blank. The source of the information in the SDS is generally not specified.

NOTE: It is better to provide a source of information to clarify the basis.

4.3 The content corresponding to 16 sections shall be completed in accordance with the recommendations and requirements of Appendix A.

4.4 Sub-sections can be divided into against the 16 sections according to the contents. The difference with the 16 sections is that these sub-sections shall not be numbered.

4.5 The 16 sections shall be clearly separated; the layout of the big and small headings shall be conspicuous.

4.6 When using the subtitle headings, they shall be arranged in the order specified in Appendix A.

4.7 Each page of the SDS shall indicate the name of the chemical product, which shall be consistent with the name on the label; meanwhile indicate the date and SDS number. The date indicates the last revision of date. The page number shall include the total number of the pages, or last page of the total number of pages.

NOTE 1: The name of the chemical product shall be the chemical name or the name of the chemical product on the label. If the chemical name is too long, the abbreviated name shall be described in Sections 1 and 3.

NOTE 2: The SDS number and revision date (version number) shall be written on the front page of the SDS. Each page can be filled with the SDS number and page number.

NOTE 3: The date of first-time revision and the date of initial preparation shall be written on the front page of the SDS.

4.8 The writing of the SDS text shall be concise, brief and easy to understand. Common words are recommended. SDS shall be written in a language acceptable to the user.

If possible, list the release date of the allowable concentration, source of data, test method, and source of method.

List the recommended personal protective equipment, such as:

- Respiratory protection;
- Hand protection;
- Eye protection;
- Skin and body protection.

Indicate the type and material of the protective equipment.

The chemical products are only hazardous under certain special conditions, such as large quantities, high concentration, high temperature, high pressure, etc.; special protective measures under these conditions shall be indicated.

A.10 Section 9 – Physical and chemical properties

This section shall provide the following information:

- Appearance and trait of chemical product, e.g.: physical state, shape and color;
- Odor;
- pH value, indicate the concentration;
- Melting/freezing point;
- Boiling point, initial boiling point and boiling range;
- Flash point;
- Upper and lower limits for burning and explosion limit;
- Vapor pressure;
- Vapor density;
- Density/relative density;
- Solubility;
- n-octanol/water partition coefficient;
- Auto-ignition temperature;

- Eye irritation or corrosion;
- Breathing or skin allergy;
- germ cell mutagenicity;
- Carcinogenicity;
- Reproductive toxicity;
- Specific target organ system toxicity - one-time contact;
- Specific target organ system toxicity - repeated contact;
- Inhalation hazard.

It can also provide the following information:

- Toxic kinetics, metabolism and distribution information.

NOTE: In vitro mutagenicity test data, such as Ames test data, are described in the germ cell mutagenesis entry.

If possible, separately describe the toxic effects of one-time contact, repeated contact and continuous contact; the late effects and immediate effects shall be described, respectively.

Potential harmful effects shall include relevant symptoms, physicochemical and toxicological properties observed in tests with toxicity values (e.g.: estimate of acute toxicity).

Information shall be provided in accordance with different methods of contact (such as inhalation, skin contact, eye contact, ingestion).

If possible, provide more data or results from scientific experiments and indicate the source of citations.

If the mixture is not tested as a whole for toxicity, information on each composition shall be provided.

A.13 Section 12 -- Ecological information

This section provides information on the environmental impacts, environmental behavior and fate of the chemical product, such as:

- The expected behavior of chemical product in the environment, possible impact on the environment/ecotoxicity;

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