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

GB 18071.1-2012

Replacing GB 18071-2000

**Health protection zone for basic chemistry industry -- Part 1:
Caustic soda industry**

基础化学原料制造业卫生防护距离 第1部分：烧碱制造业

(English Translation)

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Foreword

This section 4.2,4.3,4.4 are recommended, the rest are mandatory.

GB 18071 "basic chemical raw materials manufacturing industry from the Health Protection" is divided into eight sections.

- Part 1. caustic soda manufacturing;
- Part 2. manufacturing soda ash and sodium bicarbonate;
- Part 3. sulfuric acid manufacturing;
- Part 4. nitric acid manufacturing;
- Part 5. Manufacturing hydrochloride;
- Part 6. Sodium sulfide manufacturing;
- Part 7. yellow phosphorus industry;
- Part 8. hydrofluoric acid manufacturing.

This is Part 1 GB 18071's.

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

This Part replaces GB 18071-2000 "chlor-alkali plants (electrolytic method base) Health protection zone standard." this section of the main changes compared to GB 18071-2000 are as follows.

- Adjust the standard name, and according to GB/T 1.1-2009 "Standardization Guide Part 1. Standard structure and drafting" Adjust the structure of the standard;
- Amendments to the definition of health protection distance, increasing the sensitive area, complex terrain two terms and definitions;
- Revised the Health protection zone standard limits, and adjust the scale of production

sub-file;

--- Increased requirements for greening.

This part of the People's Republic of China Ministry of Health and focal points.

This section is responsible for drafting units. China Center for Disease Control
Environmental Health and Related Product Safety, Sichuan Provincial Disease Prevention
and Control center.

Participated in the drafting of this section. Zigong City Center for Disease Control and
Prevention.

1 Scope

GB 18071 of the provisions of this part of the health protection distance required between
caustic soda production enterprises and sensitive areas.

This section applies to areas located in the plains of caustic soda manufacturers new
construction, renovation, expansion project. Caustic soda production enterprises can refer
to existing carried out.

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 3840-1991 development of local air pollutant emission standards of technical
methods

3 Terms and Definitions

The following terms and definitions apply to this document.

Health protection healthprotectionzone Factors adversely department (workshop or
workplace) to the sensitive border zone boundary minimum distance.

Sensitive area Air pollution sensitive areas, including residential areas, schools and
hospitals.

Complex terrain complicatedlandform Mountains, hills, coastal.

4 Index requirements

4.1

caustic soda manufacturers Health protection limits in Table 1.

Table 1 caustic soda manufacturers Health protection limit

Production scale

kt/a

Location near five-year average wind speed m/s Health protection 4600

Table 1 (continued)

Production scale

kt/a

Location near five-year average wind speed m/s Health protection ≥ 300 4900

4.2

Determination located in complex terrain of caustic soda production enterprises health protection zone, in the light of GB/T 3840-1991 7.6 Regulations.

Location 4.3 caustic soda production enterprises and sensitive areas, should consider the impact of factors such as wind direction and topography frequency to minimize its sensitive areas atmosphere Pollution of the environment.

Enterprise 4.4 within the health protection distance range, densely planted trees plants green belt (width less than 10m), and according to health 90% protection from the standard limit of execution. Attention to the selection of species resistant characteristics of pollutants or adsorption characteristics.